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COMPETITION POWER

Your Guide to Government Jobs & All other Competitive Exams



**Exclusive Interview of
SSC 2015 Topper**

SSC 2016
Previous Year Paper

SBI Prelims 2016
Memory Based Mock

Ravi Shankar Singh
1st Rank (AIR) Holder
(SSC CGL 2015)

What's There

Current Affairs

Newsmakers

The GK Hindu Review - February 2017

Handy Notes & Quizzes

Practice Sets

Mocks Papers

Content Partners



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From the Editor's Desk

Dear Readers,

Bankers Adda in collaboration with Career Power brings to you **Competition Power (April Edition)**. The reason why this collaboration is so important and a landmark event as both BA and Career Power has had a long and extremely successful association with students appearing for competitive exams.

This magazine includes various initiatives that cover various aspects of Banking and SSC exams in an exhaustive manner.

Keeping in mind the upcoming exams, we have covered Current Affairs for not only the month of **February** but also for the month of **January** under the name "**Current Affairs Zinger**". To make learning easy for the students we have also introduced another initiative by the name "**NEWS MAKER OF THE MONTH**" which covers all the important people, appointments, awards, etc that have made news.

Having covered the GK and CA portion in an exhaustive manner, we have also given equal importance and focus to all the other aspects of the exams, be it Covering each aspect of the various subjects (like reasoning, english, quant, computers) right from building the student's concepts to helping him practice a few topics.or be it Interview Preparation or Guidance and boosting the confidence of students. We Have It All Covered!!!

Along with this we have also included **Mock Papers on SBI PO Prelims Memory Based Mock 2016, SBI PO Prelims Practice Set 2017, SSC Tier 1 Prelims 2016 Mock, SBI PO Mains Practice Set & SSC Tier-1 Practice Set 2017 following the respective exam pattern** for practice for our readers, so that they can increase their speed and accuracy. This edition of Magazine also includes a new series named "**Twisted Ones**" which will have questions with higher difficulty level.

Basically this magazine is a one stop place for all those preparing for government sector competitive exams. Within few months of its launch, it has become quite popular among the students, who love to refer to it for their exams.

We believe that each and every student has the hidden potential to reach the unattainable heights, and it is our responsibility to provide them with a platform that hones their skills enabling them to overcome each and every challenge that comes their way while appearing for these exams.

Having said this I would like to give special thanks to the specialized mentors of Bankers Adda and Career Power team for providing us with the needed support and making this magazine a success.

Good Luck And God Bless

Team Competition Power !!

- **Motivational Articles** | 3
- **Success Story** | 8
- **Handy Notes & Quizzes** :
 - Simple Interest | 33
 - Surds & Indices | 35
 - Clock & Calendar | 37
 - 5 Mistakes to Avoid While Preparing for SBI PO | 39
 - Transmission Media - Guided | 40
 - Banking : All about the Bharat QR: The QR Code Based Payment System | 41
 - Gupta Empire Part 2 | 42
- **GK Hindu Review : Febraury 2017** | 43
- **Current Affairs Zinger : January 2017** | 53
- **Twisted Ones** | 61-70
- **Interview Experience** : IBPS PO 2017 | 71
- **Exclusive Interview** of Ravi Shankar Singh 1st Rank (AIR) Holder in SSC CGL 2015 | 72

WHAT'S THERE?

NEWSMAKERS OF THE MONTH | 4-7

CURRENT AFFAIRS | 9-32

India In News | State In News | News From The Banking Sector News
Related To Indian Economy | Business News | Agreement | Mou Signed
Committees In News | Ranks And Reports | Pm Visits | New
Appointments | Obituaries | Awards | Defence | Sports News & more

MOCK PAPERS & PRACTICE SETS | 76-137

SSC CGL Tier I 2017: Practice Set - 76

SSC CGL Tier I Previous Year Paper: Practice Set - 86

SBI PO Prelims 2016: Practice Set - 94

SBI PO Prelims 2017: Practice Set - 104

SBI PO Mains 2017: Practice Set - 116

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Motivational : Don't be dormant, Work Hard and things will fall in right place!

After the drastic changes in examination level in 2016, maybe many of you were in a state of indolent, dozy, demotivated and disappointment but at the same time, a non-living thing after lying 15 decades in sleep- India's only active volcano, the Barren Islands volcano, located in the Andaman and Nicobar Islands, erupted for about four hours in January this year. *Nothing is this world stays steady and permanent. There is a time when everyone has to take up a wake-up call and run for their final race which will decide your upcoming existence in this world, where no one cares whether you are alive or deceased.* It is your wake-up call now!



according to one's will. **With every passing second in this fast world, someone is going ahead of you and to beat them you have to be very fast and furious.**

Many relative and family members will tell you that this task is not your cup of tea and always show you that side of a coin which is not in your favour like your category, your past, and your so-called rivals; as scientist predicted about the volcano that it was dormant but it exploded and similarly you have to be vigorous for your career. There are many negative and distracting element but you have to find your magma chamber to stay active. But for that, you have to get up and start collecting arsenal to form a conduit.


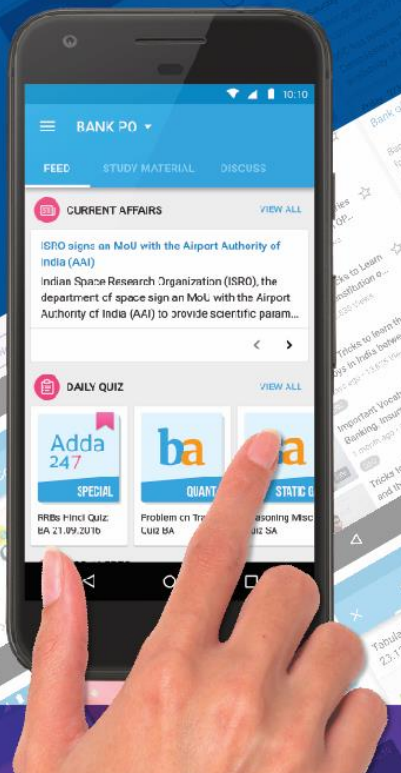
Focus all your energy to the crust and the day will come when your success will burst out with the smoke of happiness and joy, and the lava of your hard work will entice everyone on your side to see the glimpse of your black graphite future turning into a sparkling diamond by the heat of lava. And that moment will be historic for you which you will never forget or lets other too.

This is the time where apple and blackberry are not just a fruit and twitter is not only a bird, you have to be fast and vigorous to achieve your goal. If a non-living can't stay dead for long then how can be you, after having all functions, working properly



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News Makers of the Month – January-February 2017

RBI released the 6th Bi-Monthly Monetary Policy post budget announcement

RBI's Monetary Policy Statement for 2016-17 released on 8th February, 2017. This was the sixth bi-monthly monetary policy released by RBI for the year 2016-17. The policy repo rate under the Liquidity Adjustment



Facility (LAF) has been kept unchanged at 6.25%. As a result, the reverse repo rate also remains unchanged at 5.75%. The Marginal Standing Facility rate and the Bank Rate has been kept stable at 6.75%.

Following are the highlights of the sixth bi-monthly monetary policy announced by RBI:

- ✚ Policy repo rate unchanged at 6.25 percent.
- ✚ Monetary Policy Committee (MPC) shifts policy stance to neutral keeping in mind transitory effect of demonetisation.
- ✚ Economic growth for FY17 lowered to 6.9 percent; RBI pegs it at 7.4 percent in 2017-18.
- ✚ Retail inflation in Q4 likely to be below 5 percent.
- ✚ Inflation projected in the range of 4-4.5 percent in the first half of 2017-18 and 4.5-5 percent in the second half.
- ✚ Upside risks to inflation - rise in crude oil prices, volatility in exchange rate, and fuller effect of the 7th Pay Panel.
- ✚ RBI changes policy stance from 'accommodative' to 'neutral'.
- ✚ Surplus liquidity to fall with progressive remonetisation; abundant liquidity with banks may persist in early 2017-18.
- ✚ Steel consumption, port traffic, international air freight, foreign tourist arrivals weathered effect of demonetisation.
- ✚ Makes case for faster resolution of NPAs and hastening recapitalisation of banks for lower lending rates.

The Rates remain unchanged as follows:

Repo Rate: 6.25%

Reverse Repo Rate : 5.75%

Marginal Standing Facility Rate: 6.75%

Bank Rate: 6.75%

Cash Reserve Ratio: 4%

Statutory Liquidity Ratio: 20.50%

ISRO created history by launching 104 satellites with PSLV C-37

India's Polar Satellite Launch Vehicle, PSLV-C37, launches the 714 kg Cartosat-2 series satellite for earth observation and 103 co-passenger satellites together weighing about 663 kg at lift-off into a 505 km polar Sun Synchronous Orbit



(SSO). PSLV-C37 was launched from the First Launch Pad (FLP) of Satish Dhawan Space Centre (SDSC) SHAR, Sriharikota. This was the sixteenth flight of PSLV in 'XL' configuration (with the use of solid strap-on motors).

The co-passenger satellites comprised of 101 nano satellites, one each from Kazakhstan, Israel, The Netherlands, Switzerland, United Arab Emirates (UAE) and 96 from United States of America (USA), as well as two Nano satellites from India. The total weight of all these satellites carried on-board PSLV-C37 was about 1377 kg.

PSLV-C37 also carried two ISRO Nano satellites (INS-1A and INS-1B), as co-passenger satellites. These two satellites carry a total of four different payloads from Space Applications Centre (SAC) and Laboratory for Electro Optics Systems (LEOS) of ISRO for conducting various experiments.

The 101 International customer Nano satellites were launched as part of the commercial arrangements between Antrix Corporation Limited (Antrix), a Government of India company under Department of Space (DOS), the commercial arm of ISRO and the International customers.

And the 70TH BAFTA (Awards) winners are

The 70th British Academy Film Awards were held on February 12, 2017, at the Royal Albert Hall in London. The honorary award show which recognises the best British as well as international contributions to movies in 2016. Emma Stone starrer, La La Land stole the show with five trophies in its kitty.

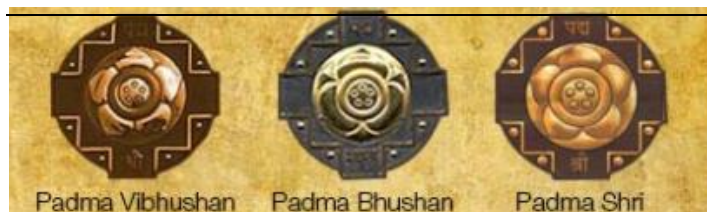


Lets' look at the list of all the winners at the BAFTA 2017.

- ✦ **Best film:** La La Land – Fred Berger, Jordan Horowitz, Marc Platt
- ✦ **Best Director:** La La Land – Damien Chazelle
- ✦ **Best Actress in a Leading Role:** Emma Stone – La La Land
- ✦ **Best Actor in a Leading Role:** Casey Affleck – Manchester by the Sea
- ✦ **Best Cinematography:** La La Land – Linus Sandgren
- ✦ **Best Original Screenplay:** Manchester By The Sea – Kenneth Lonergan
- ✦ **Best Actor in a Supporting Role:** Dev Patel – Lion
- ✦ **Best Actress in a Supporting Role:** Viola Davis – Fences
- ✦ **EE Rising Star Award:** Tom Holland
- ✦ **Outstanding Debut by a British Writer, Director or Producer:** Under the Shadow: Babak Anvari (Writer/Director), Emily Leo, Oliver Roskill, Lucan Toh (Producers)
- ✦ **Best Special Visual effects:** The Jungle Book – Robert Legato, Dan Lemmon, Andrew R. Jones, Adam Valdez
- ✦ **Best Animated Film:** Kubo And The Two Strings – Travis Knight
- ✦ **Best Adapted Screenplay:** Lion – Luke Davies
- ✦ **Best Film not in the English language:** Son Of Saul – Laszlo Nemes, Gabor Sipos
- ✦ **Best Documentary:** 13th – Ava Du Vernay
- ✦ **Best Production Design:** Fantastic Beasts and Where To Find Them – Stuart Craig, Anna Pinnock
- ✦ **Best Editing:** Hacksaw Ridge – John Gilbert
- ✦ **Best Short Film:** Home – Shpat Deda, Afolabi Kuti, Daniel Mulloy, Scott O'Donnell
- ✦ **Best Short Animation:** A Love Story – Khaled Gad, Anushka Kishani Naanayakkara, Elena Ruscombe-King

introduced the young and charismatic face of the FIFA U-17 World Cup, a clouded leopard called Kheleo. The clouded leopard is an endangered wild cat whose habitat extends from the Himalayan foothills to mainland Southeast Asia. Kheleo will participate in numerous activities in the run-up to the first-ever FIFA tournament to be hosted by India, which will be played from October 6 to 28 this year.

Padma Awards 2017 Announced: And the winners are



Padma Awards - one of the highest civilian Awards of the country, are conferred in three categories, namely, Padma Vibhushan, Padma Bhushan and Padma Shri. The Awards are given in various disciplines/ fields of activities, viz.- art, social work, public affairs, science and engineering, trade and industry, medicine, literature and education, sports, civil service, etc. These awards are conferred by the President of India at ceremonial functions which are held at Rashtrapati Bhawan. This year the President of India has approved conferment of Padma Awards to 89 persons as per the list below. The list comprises of 7 Padma Vibhushan, 7 Padma Bhushan and 75 Padma Shri Awardees. 19 of the awardees are women and the list also includes 5 persons from the category of foreigners, NRIs, PIOs and 6 Posthumous awardees.

WINNERS OF PADMA VIBHUSHAN

Sl. No	Name	Field	State
1.	Shri K J Yesudas	Art-Music	Kerala
2.	Sadhguru Jaggi Vasudev	Others-Spiritualism	Tamil Nadu
3.	Shri Sharad Pawar	Public Affairs	Maharashtra
4.	ShriMurli Manohar Joshi	Public Affairs	Uttar Pradesh
5.	Prof. Udipi RamachandraRao	Science & Engineering	Karnataka
6.	Late Shri Sunder Lal Patwa (Posthumous)	Public Affairs	Madhya Pradesh
7.	Late Shri PA Sangma (Posthumous)	Public Affairs	Meghalaya

Official mascot of FIFA U-17 World Cup is a clouded leopard called "Kheleo"

As we are coming close for the start of the tournament, the official mascot of the FIFA U-17 World Cup India 2017, 'Kheleo' was unveiled at the Jawaharlal Nehru Stadium.



In a glittering ceremony attended by Sports Minister Vijay Goel, the chairman of the Local Organising Committee and AIFF president Praful Patel,

WINNERS OF PADMA BHUSHAN

Sl. No.	Name	Field	State
8.	Shri Vishwa Mohan Bhatt	Art-Music	Rajasthan
9.	Prof. (Dr.) Devi Prasad Dwivedi	Literature & Education	Uttar Pradesh
10.	Shri Tehemton Udawadia	Medicine	Maharashtra
11.	Shri Ratna Sundar Maharaj	Others-Spiritualism	Gujarat
12.	Swami Niranjana Nanda Saraswati	Others-Yoga	Bihar
13.	H.R.H. Princess Maha Chakri Sirindhorn (Foreigner)	Literature & Education	Thailand
14.	Late Shri Cho Ramaswamy (Posthumous)	Literature & Education – Journalism	Tamil Nadu

WINNERS OF PADMA SHRI

Sl. No	Name	Field	State
15.	Smt. Basanti Bisht	Art-Music	Uttarakhand
16.	Shri Chemanchery Kunhiraman Nair	Art-Dance	Kerala
17.	Smt. Aruna Mohanty	Art-Dance	Odisha
18.	Smt. Bharathi Vishnuvardhan	Art-Cinema	Karnataka
19.	Shri Sadhu Meher	Art-Cinema	Odisha
20.	Shri T K Murthy	Art-Music	Tamil Nadu
21.	Shri Laishram Birendrakumar Singh	Art-Music	Manipur
22.	Shri Krishna Ram Chaudhary	Art-Music	Uttar Pradesh
23.	Smt. Baoa Devi	Art-Painting	Bihar
24.	Shri Tilak Gitai	Art-Painting	Rajasthan
25.	Dr. Prof. Aekka Yadagiri Rao	Art-Sculpture	Telangana
26.	Shri Jitendra Haripal	Art-Music	Odisha
27.	Shri Kailash Kher	Art-Music	Maharashtra
28.	Smt. Parassala B Ponnammal	Art-Music	Kerala
29.	Smt. Sukri Bommagowda	Art-Music	Karnataka
30.	Shri Mukund Nayak	Art-Music	Jharkhand
31.	Shri Purushottam Upadhyay	Art-Music	Gujarat

32.	Smt. Anuradha Paudwal	Art-Music	Maharashtra
33.	Shri Wareppa Naba Nil	Art-Theatre	Manipur
34.	Shri Tripuraneni Hanuman Chowdary	Civil Service	Telangana
35.	Shri T.K. Viswanathan	Civil Service	Haryana
36.	Shri Kanwal Sibal	Civil Service	Delhi
37.	Shri Birkha Bahadur Limboo Muringla	Literature & Education	Sikkim
38.	Smt. Eli Ahmed	Literature & Education	Assam
39.	Dr.Narendra Kohli	Literature & Education	Delhi
40.	Prof. G. Venkatasubbiah	Literature & Education	Karnataka
41.	Shri Akkitham Achyuthan Namboothiri	Literature & Education	Kerala
42.	Shri Kashi Nath Pandita	Literature & Education	Jammu & Kashmir
43.	Shri Chamu Krishna Shastry	Literature & Education	Delhi
44.	Shri Harihar Kripalu Tripathi	Literature & Education	Uttar Pradesh
45.	Shri Michel Danino	Literature & Education	Tamil Nadu
46.	Shri Punam Suri	Literature & Education	Delhi
47.	Shri VG Patel	Literature & Education	Gujarat
48.	Smt. V Koteswaramma	Literature & Education	Andhra Pradesh
49.	Shri Balbir Dutt	Literature & Education-Journalism	Jharkhand
50.	Smt. Bhawana Somaaya	Literature & Education-Journalism	Maharashtra
51.	Shri Vishnu Pandya	Literature & Education-Journalism	Gujarat
52.	Dr. Subroto Das	Medicine	Gujarat
53.	Dr. (Smt.) Bhakti Yadav	Medicine	Madhya Pradesh
54.	Dr. Mohammed Abdul Waheed	Medicine	Telangana
55.	Dr.Madan Madhav Godbole	Medicine	Uttar Pradesh

56.	Dr. Devendra Dayabhai Patel	Medicine	Gujarat
57.	Prof. Harkishan Singh	Medicine	Chandigarh
58.	Dr. Mukut Minz	Medicine	Chandigarh
59.	Shri Arun Kumar Sharma	Others-Archaeology	Chhattisgarh
60.	Shri Sanjeev Kapoor	Others-Culinary	Maharashtra
61.	Smt. Meenakshi Amma	Others-Martial Art	Kerala
62.	Shri Genabhai Dargabhai Patel	Others-Agriculture	Gujarat
63.	Shri Chandrakant Pithawa	Science & Engineering	Telangana
64.	Prof. Ajoy Kumar Ray	Science & Engineering	West Bengal
65.	Shri Chintakindi Mallesham	Science & Engineering	Andhra Pradesh
66.	Shri Jitendra Nath Goswami	Science & Engineering	Assam
67.	Shri Daripalli Ramaiah	Social Work	Telangana
68.	Shri Girish Bhardwaj	Social Work	Karnataka
69.	Shri Karimul Hak	Social Work	West Bengal
70.	Shri Bipin Ganatra	Social Work	West Bengal
71.	Smt. Nivedita Raghunath Bhide	Social work	Tamil Nadu
72.	Shri Appasaheb Dharmadhikari	Social Work	Maharashtra
73.	Baba Balbir Singh Seechawal	Social Work	Punjab
74.	Shri Virat Kohli	Sports-Cricket	Delhi
75.	Shri Shekar Naik	Sports-Cricket	Karnataka
76.	Shri Vikasa Gowda	Sports-Discus Throw	Karnataka
77.	Smt. Deepa Malik	Sports-Athletics	Haryana
78.	Shri Mariyappan Thangavelu	Sports-Athletics	Tamil Nadu
79.	Smt. Dipa Karmakar	Sports-Gymnastics	Tripura
80.	Shri P R Shreejesh	Sports-Hockey	Kerala
81.	Smt. Sakshi Malik	Sports-Wrestling	Haryana
82.	Shri Mohan Reddy Venkatrama	Trade & Industry	Telangana

	Bodanapu		
83.	Shri Imrat Khan (NRI/PIO)	Art-Music	USA
84.	Shri Anant Agarwal (NRI/PIO)	Literature & Education	USA
85.	Shri H.R. Shah (NRI/PIO)	Literature & Education-Journalism	USA
86.	Late (Smt.) Suniti Solomon (Posthumous)	Medicine	Tamil Nadu
87.	Shri Asoke Kumar Bhattacharyya (Posthumous)	Others-Archaeology	West Bengal
88.	Dr. Mapuskar (Posthumous)	Social Work	Maharashtra
89.	Smt. Anuradha Koirala (Foreigner)	Social Work	Nepal

Australian Open 2017: Roger Federer beats Rafael Nadal to win 18th Grand Slam title

Roger Federer won his 18th Grand Slam title and first for five years with a thrilling five-set victory over Rafael Nadal in the Australian Open final. The 35-year-old Swiss won 6-4 3-6 6-1 3-6 6-3 to claim his fifth Melbourne title and extend his lead at the top of the all-time men's major winners' list.



Serena Williams beat sister Venus in straight sets to win her seventh Australian Open and an Open-era record 23rd Grand Slam singles title. Serena won to pass Steffi Graf in the all-time list of major winners since the Grand Slams accepted professional players in 1968.

Here's the Australian Open 2017 Winners List

- 🏆 **Men's Singles:** Roger Federer (SUI)
- 🏆 **Women's Singles:** Serena Williams (USA)
- 🏆 **Men's Doubles:** Henri Kontinen (FIN) & John Peers (AUS)
- 🏆 **Women's Doubles:** Bethanie Mattek-Sands (USA) & Lucie Safarova (CZE)
- Mixed Doubles:** Abigail Spears (USA) & Juan Sebastian Cabal (COL)

Journey of Ankur Saha from an aspirant to SBI

A BIG hello and a warm hi to all of you and **Bankersadda** especially. This is **Ankur Saha (Ankz)** and finally, I can say here comes my **SUCCESS Story** of becoming **Junior Associates in SBI**.

I was born and brought up in a small village popularly known as Naxalbari, West Bengal I was an average student from my childhood I used to fight a lot with mathematics however with time and zeal to overcome this fear of mathematics I took Science and yes obviously the worst part Engineering however the life I spent in engineering taught me a lot of things that helped me, is helping me and will help me in future to overcome any situation that comes across so proud to be an Engineer.

Now short and sweet i have given so many exams that even now I cannot make u count hehe ;) however I never stopped learning and my thinking was padhai mai kanjusi nai(do not become a miser in spending your time in study). Being a general candidate I never accused myself however I always believe in competing with myself not with others Because what I think is you yourself is the greatest competitor, come out of your comfort zone let your cell phone rest for 6 months burn your day and nights and at last always believe in yourself that **"YOU CAN DO IT"**.

People I really want to thank for my success, first of all, are my Ma, Baba, Didi as they never said ki Kab Tak exam dete rahoge



ab kch ghar ka kam ya private job karlo.

They always said take your time and achieve the heights that you want to.

Secondly my strength my friends Manisha(my lady luck), Durga, Ajay , Hemant, Manoj,

SPH not to forget my whats app group all those are my supportive pillars.

BANKERSADDA (in caps) hats off to you Thanks a ton for making this success easier to me in difficult times each and every quiz and study material provided by you helped me a lot. Being a silent reader I always learned a lot from mentors here in Bankersadda especially Prashant Sir and strictly ignored unnecessary chats in discuss forum.

Things that I did during my study hours:

Clear basics of each and every subject is really required especially when it comes to Maths and English Grammar. For maths I would suggest you go through quicker maths practice books, take quant quizzes from Bankersadda and when it comes to English I must say learn patiently because it is a language so you cannot learn English in one day one month or year its how you easily become adaptive to it, read news paper daily economics part write down the unknown words it's a lengthy tiring process but will help you definitely because English section has been changed dramatically and now what they want is someone having good vocabulary skills, listen to English songs, watch movies with English subtitles or any video of half an hour which won't affect your studies and one thing very important take 1 hour daily and take quizzes of quant, reasoning and English from **BANKERSADDA** because they are very effective. **ADDA 247** is also becoming very effective with the flow so you must follow the flow.

When it comes to GA You have three sections 1-General Awareness 2-static 3-financial awareness. Write down the daily gk updates in a separate note book from Bankersadda and have weekly quizzes because Ga is not a subject of one day.

For static you need to make nonsense shortcuts to memorize it and relate it to things that is known to you go through the **Bankersadda capsule** before heading for the exams and treat it as final revision notes.

Last but not the least you must give speed test and analyze it nicely, St you can buy are **career power**, as this can change the match.



Everything you do will be in vain if you do not have interest in study, interest is required zeal is required to make every impossible thing say **"I AM POSSIBLE"** and always remember **"the ball is still in your court"**

I wish you all the best and never lose hope fight for your dreams and make it true.

Regards

Ankur Saha (Ankz)

CURRENT AFFAIRS : 15th January to 18th February 2017

INDIA IN NEWS

Government Increases the Cash Credit Limit for MSMEs To 30%

Union government has increased the Cash Credit (CC) limit for Micro, Small and Medium Enterprises (MSMEs) to 30% of turnover from the existing 20% to encourage them to conduct businesses digitally. Presently the taxes for MSME's are calculated at 8% for revenue of up to Rs. 2 crore. With digital transaction, tax liability will be reduced from 8% to 6%.

NRAI gets highest WHO ratings for vaccine regulations

National Regulatory Authority of India (NRAI) has been given the maximum ratings by the World Health Organisation (WHO) for vaccine regulations. India is one of the main players in the pharmaceutical industry worldwide. India, as a large vaccine producing country, is currently supplying several vaccines to the UN agencies (UNICEF, WHO and PAHO).

Aadhaar card to be mandatory to avail benefits under Central Scholarships scheme

Union Human Resource Development Ministry has stated that to avail benefit under the Central Sector Scholarship Scheme for College and University students, applicants will now have to furnish proof of possession of Aadhaar card or undergo Aadhaar authentication. It is, however, not applicable in Jammu and Kashmir.

Science Express Climate Action Special to be flagged off

Science Express Climate Action Special (SECAS II) will be flagged off from Safdarjung Railway station in Delhi. The train will be open for public viewing at Delhi Cantonment Railway Station. The SECAS II will run till 8th September and culminate its journey at Gandhinagar. During its journey, the Science Express will cover over 19,000 kilometres, and will be exhibited at 68 stations across 20 states.

Vetiver Network launched

India Vetiver Network (INVN) has been launched at Tamil Nadu Agricultural University. INVN is a not-for-profit scientific network to promote vetiver in India. Vetiver has worldwide application to tackle many environmental issues like soil erosion, mitigation of soil and water pollution.

Important Cabinet Approvals in February 2017:

- ✚ Union Government chaired by Prime Minister Shri Narendra Modi approved setting up of Food Legumes Research Platform (FLRP) at Amlaha, Sehore in Madhya Pradesh for meeting the emerging food security challenges.
- ✚ The Cabinet approved the signing of Air Services Agreement between India and Rwanda which will enable the airlines of the two countries to operate services in each other's

territory.

BEL launches communication radio

PSU Bharat Electronics Ltd (BEL) has unveiled a new communication radio for the Indian armed forces, called STARS-V Mk III, at the Aero India 2017 show. MV Gowtama, CMD of BEL stated that the radio is completely designed, developed and made in BEL.

India, Croatia signs agreement

Union Commerce and Industry Minister of India Nirmala Sitharaman and Martina Dalic, Deputy Prime Minister and Minister of the Economy, Republic of Croatia have signed an agreement to boost bilateral trade and enhance economic cooperation in Zagreb, Croatia.

India Joins UN Network to Prevent Maternal, Newborn and Child Deaths by 2030.

India has become one of the nine members of the new 'Network for Improving Quality of Care for Maternal, Newborn and Child Health' that aims to improve the quality of care for new mothers and babies. The global health network is supported by World Health Organisation (WHO), UN International Children's Fund (Unicef) and other partners. Besides India the other member nations of the network includes, Bangladesh, A Cote d'Ivoire, Ethiopia, Ghana, Malawi, Nigeria, Tanzania and Uganda.

India's first floating elementary school inaugurated

India's first floating elementary school particularly for drop outs has been inaugurated on Loktak lake at Langolsabi Leikai of Champu Khangpok floating village in Manipur on the occasion of World Wetlands Day on February 2, 2017. The school is named Loktak Elementary Floating School.

GNFC township becomes India's first cashless Township

India's first cashless township 'Gujarat Narmada Valley Fertilizers and Chemicals (GNFC) township' inaugurated by Gujarat CM Vijay Rupani.

Government Approves Setting Rs. 6,831 crore Electronics Development Fund

The centre has approved setting up the Electronic Development Fund Tele communication Minister with a total corpus of Rs. 6,831 crore to support entrepreneurship and innovation in electronics and IT.

India & Austria Signs Protocol to Amend Bilateral Taxation Treaty

India and Austria signed a protocol to amend the existing bilateral taxation treaty for Avoidance of Double Taxation and the Prevention of Fiscal Evasion. The protocol was signed between Central Board of Direct Taxes (CBDT) Chairman Sushil

Chandra on behalf of India and Embassy of Austria Charge d' Affaires Georg Zehetner on behalf of Austria.

Telangana launches India's first social innovation hub in Nizamabad

The Telangana government has launched India's first social innovation centre, The 'Kakatiya Hub For Social Innovation' in Nizamabad. Telangana IT Secretary Jayesh Ranjan made this announcement at the one-day Development Dialogue, an international social entrepreneurship ecosystem conference hosted by Kakatiya Sandbox.

Govt to set up dairy development fund with corpus of Rs. 8,000 crores

To augment income of farmers, budget has proposed setting-up of a Dairy Processing and Infrastructure Development Fund with a corpus of Rs 8,000 crores over three years.

Agri credit raised to record Rs 10 lakh crore in Financial Year 2018

Finance Minister Arun Jaitley announced a whopping Rs 1 lakh crore hike in the credit target for the next financial year to Rs. 10 lakh crore as part of the government's efforts to double farm incomes in the next five years. The government provides short-term crop loans up to Rs. 3 lakh at subsidised interest rate of 7% per annum. An additional incentive of 3% is provided to farmers for prompt repayment of loans within due date, making an effective interest rate for them at 4%.

Arun jaitley unveils education reforms, to set up National Testing Agency

Finance Minister Arun Jaitley has unleashed measures to revamp the country's education system, including setting up of a National Testing Agency to conduct all entrance examinations for higher education institutions.

NTA would free CBSE, AICTE and other premier institutions from these administrative responsibilities so that they can focus more on academics.

Govt to launch TIES to fund export infrastructure

A new scheme will be introduced by Govt. of India to create infrastructure for exports, a move aimed at reducing transaction costs for traders. A new and restructured central scheme with a focus on export infrastructure namely Trade Infrastructure for Export Scheme (TIES) will be launched in 2017-18.

Union Home Minister Rajnath Singh Presents 2016 National Entrepreneurship Awards

The First ever National Entrepreneurship Awards 2016 was presented by the Union Home Minister Shri Rajnath Singh at Indian Institute of Technology, New Delhi. Shri Rajiv Pratap Rudy, Minister of State (I/C) for Skill Development and Entrepreneurship was the guest of honour on the occasion.

Air India to get Rs. 1,800 cr from govt in 2017-2018

National carrier Air India will receive Rs. 1,800 crore as equity infusion in 2017-18 under the government's ongoing financial assistance and the amount is slightly higher than the allocation for 2016-2017.

Nitin Gadkari Announces to Develop 1,253 km road in Assam as National Highways

The Union Minister of Road Transport and Highways and Shipping, Nitin Jairam Gadkari, Road inaugurated a 3-lane Brahmaputra Bridge at Saraighat in Guwahati. The Minister announced that the government would spend Rs 15,000 crores to develop 1,253 kilometres of roads in Assam into National Highways over the next few years.

IMD to Set up Weather Stations in 660 Districts by 2019

The India Meteorological Department (IMD) has decided to set up weather stations in 660 districts of the country for better and prompt weather forecasting with major focus on rain-fed and non-rain-fed areas to give crop specific advisories. The system would be launched in phased manner. Initially, IMD has planned to set up the system in 130 districts and gradually increase it to 660 by 2019.

India gets its own multi-sports museum in Kolkata

In a first, India's Fanatic Sports Museum opened to the public in Kolkata. The museum will display memorabilia from cricket, hockey, football and the Olympics and Paralympics.

Cabinet Approvals during January 2017

- ✚ Union Cabinet approved the Indian Institute of Management(IIM) Bill, 2017 that aims to declare IIMs as Institutions of National Importance.
- ✚ As a part of government's commitment for financial inclusion and social security the Union Cabinet has given its post-facto approval to launch Varishtha Pension Bima Yojana 2017.

BHEL Commissions 500 MW Thermal Unit in West Bengal

Government-owned Bharat Heavy Electricals Limited (BHEL) has commissioned new 500 MW Thermal Unit in West Bengal. This was the second 500 MW at Sagardighi Thermal Power Station (TPS) Phase II project in Murshidabad district of West Bengal.

Kozhikode Corporation becomes first Elderly-friendly corporation in Kerala

Kozhikode Corporation has declared as the first Elderly-Friendly Corporation in Kerala. The Kozhikode Corporation state government has planned to setup Senior citizen's club, Day care centers as a part of Vayomitram project for the welfare of the elder people in the state.

India's largest startup incubator to be built at Hubballi

Indian-American entrepreneur, philanthropist and venture

capitalist Gururaj Deshpande has decided to launch India's largest startup incubation centre at Hubballi (earlier Hubli) in Karnataka.

STATES IN NEWS

Bihar liquor ban: Officials Can't Drink Anywhere in the World

Officials of Bihar, which went dry 10 months ago, cannot drink outside the state or even abroad, in Chief Minister Nitish Kumar's new rule. The Bihar cabinet cleared an amendment in the state prohibition law, after which bureaucrats, judges or magistrates caught drinking anywhere in the world will be punished.

Kerala cabinet Gives In-Principle Approval for Greenfield Airport at Sabarimala

The Kerala cabinet gave its in-principle approval for setting up a Greenfield Airport at pilgrim centre Sabarimala located at the Periyar Tiger Reserve in the Western Ghat mountain ranges of Pathanamthitta District, Kerala.

Himachal Pradesh Governor Inaugurates Campaign against Drug Addiction

The Himachal Pradesh Governor Acharya Devvrat inaugurated a Campaign against Drug Addiction organized by Shimla Press Club in Shimla. The campaign aims to make the state drug free.

Madhya Pradesh government to set up Tourism Board

The state government of MP decided to set up a tourism board. The Chief Minister Shivraj Singh Chauhan will be the chairman of the board. The main work of the board would be implementation of the state's tourism policy, attract private sector participation, facilitate investors and extend benefits to them as is permissible under the tourism policy.

Mamata Banerjee declares Kalimpong as separate district

West Bengal CM Mamata Banerjee declared Kalimpong as 21st district of West Bengal. Kalimpong as separate district of West Bengal. The new district is from Darjeeling.

J&K govt launches e-Prison project

The Jammu and Kashmir government launched the e-Prison project to enumerate jail inmates in the State, where numbers of detainees keep swelling during unrest.

AP signs MoUs for 12 textile units

During the recent CII partnership summit in AP, 12 MoUs were signed by the State Government with different companies for setting up 12 apparel units in the State entailing investment of Rs. 963 crores in all and generating 46,000 jobs.

Haryana govt imposes curbs on liquor consumption

Haryana government has notified that no person will be allowed to consume liquor at a place which is not licensed or authorized

under the Punjab Excise Act, 1914 except his dwelling unit.

Bill Passed in Karnataka Assembly to allow 'Kambala'

The Karnataka assembly unanimously passed the Prevention of Cruelty to Animals (Karnataka Amendment) Bill, 2017 to legalize the conduct of 'Kambala' and bullock cart races in Karnataka.

Gujarat establishes cashless system for PDS

Gujarat has become the first state in the country for establishing the cashless system in its public distribution system (PDS) of food grains. The beneficiaries who are eligible for subsidised food grains under the National Food Security Act (NFSA) will now need to carry only Aadhaar cards for getting their food grains in Gujarat.

Arunachal Becomes First NE State to Implement e-Cabinet Solution

Arunachal Pradesh became the first state in the northeast to implement e-Cabinet solution for the state cabinet members. Using this system, the cabinet members can access the cabinet notes before the meeting. The entire business of the Cabinet can be conducted using the e-Cabinet solution.

Assam Finance Minister Himanta Biswa Sarma Presents Deficit Budget 2017-18

The Assam Finance Minister Himanta Biswa Sarma presented the state Budget for the session 2017-18 in the state assembly. The budget was based on the theme "Resurgent Assam". As per the Minister the state Budget 2017-18 was Rs. 2,349.79 crore deficit Budget.

2% reservation to sports persons in govt jobs: CM Raghubar Das

Jharkhand Chief Minister Raghubar Das stated that state will give 2% reservation to sports persons in government jobs and nutritious food to them. The efforts were also being taken to give nutritious food to the sports persons, an official release said in Ranchi.

Nagaland cabinet to submit memorandum to PM to exempt it from Part IX A of Constitution

Nagaland cabinet has decided to submit a memorandum to the Prime Minister to issue an ordinance to exempt the state from the provision of Part IX A of the Constitution which deals with the municipalities.

Textile Ministry Inaugurates Meghalaya's First Ever Apparel and Garment Centre at Ampati

Meghalaya's first ever Apparel and Garment Making Centre was inaugurated jointly by Union Textiles Minister Smriti Zubin Irani and Chief Minister of Meghalaya Dr. Mukul Sangma near Ampati in South West Garo Hills. It has been set up under North East Region Textiles Promotion Scheme (NERTPS).

Ministry of Defence to Set up Rs 1500 cr Defence Unit in Madhya Pradesh

The Union Minister for Panchayati Raj and Rural Development, Narendra Singh Tomar stated that the Ministry of Defence is set to open its Defence Unit in Morena district of Madhya Pradesh. The unit would be set up in Kailaras and Sabalgarh tehsil areas.

Rajasthan, Telangana bag eGov awards

This year (2017), under the State category, Rajasthan and Telangana emerged Winners of Excellence while the Award of Recognition went to Odisha and Nagaland.

Andhra Pradesh Launches Rs 100 cr fund of funds for Fintech Startups

Andhra Pradesh under Chief Minister Chandrababu Naidu has announced Rs 100-crore fund of funds to invest in Fintech startups.

Mysuru gets India's 1st post office passport kendra

The Union Minister for Chemicals and Fertilizers Ananth Kumar inaugurated India's first Post Office Passport Seva Kendras (POPSK) at Metagalli post office in Mysuru. The second POPSK simultaneously opened in Gujarat.

Madhya Pradesh CM announces total ban on polythene bags

Madhya Pradesh Chief Minister Shivraj Singh Chouhan has announced a total ban on polythene carry bags from May 1, 2017 across the state.

Goa First State to Send Postal Ballots Electronically to Service Voters

The Chief Election Commissioner(CEC) of India, Syed Nasim Zaidi has informed that the state government of Goa has opted for an initiative involving electronic transmission of postal ballot to service voters in the upcoming assembly polls. This initiative will make Goa the first state in the country to do so.

Kerala CM inaugurates 'Jyothirmaya'

Kerala Chief Minister Pinarayi Vijayan inaugurated the 4 lakh square feet latest IT building, 'Jyothirmaya' at the Info park. Dedicating the 9-storeyed building, constructed over six acres of land 80,000 job opportunities will be created when the buildings constructed become fully operational.

Gujarat: Over 3.5 lakh people sing national anthem, set new world record

More than 3.5 lakh people in Gujarat's Rajkot district set a new world record by singing the national anthem at an event. The feat took place at the installation of a Khodiyar goddess idol at the newly-built Khodal Dham temple in the town.

Dharamsala declared the second capital of Himachal Pradesh

Dharamsala town in Kangra district of Himachal Pradesh has been declared as the second capital city of the state by the

Himachal Pradesh Chief Minister Virbhadra Singh.

Meghalaya's Mawlynnong village becomes a role model for cleanliness

Mawlynnong village in Meghalaya has become a role model for other states in maintaining cleanliness known as Asia's cleanest village. Mawlynnong has become tourists' hotspot.

Manipur's Karang is India's first cashless island

Karang, a small lake island in Manipur, has become the country's first cashless island. The Union ministry of electronics and information technology under its Digital India programme announced Karang as the first cashless island in India.

World Bank Sanctions Rs 1,376 Cr For Tripura Power Upgradation

Washington based World Bank has sanctioned Rs 1,376 crore for upgradations and improvement of the Tripura power system network.

Kolkata's Sitalpati Gets place in UNESCO's Intangible Cultural Heritage

The United Nations Educational, Scientific and Cultural Organisation (UNESCO) has registered Sitalpati or cool mat from the Cooch Behar district, West Bengal as an Sitalpati Intangible cultural heritage.

BANKS IN NEWS

RBI Doubles Gold Loan Limit for Regional Rural Banks to Rs. 2 lakhs

Reserve Bank of India increased the gold loan limit for RRBs (Regional Rural Banks) to Rs 2 lakh from the current Rs 1 lakh to help the farmers and artisans have access to credit who are willing to pledge gold as collateral. The limit has been doubled for the loans not exceeding 12 months from the date of sanction. RBI has also directed that the gold loans should not exceed 75% of the value of the gold pledged for taking the loan.

HDFC Life Launches 'Pragati' Plan for Low Income Group

Life insurance firm, HDFC life launched a traditional life insurance plan 'Pragati' for low income group people. The plan has been designed specially to empower low income families by making the plan available at affordable rate to every person who has the desire to secure his family.

SoftBank to buy Fortress Investment for \$3.3 billion

Japan's SoftBank Group Corp has agreed to buy Fortress Investment Group LLC for about \$3.3 billion, looking to add investment expertise as it prepares to launch the world's largest private equity fund. The all-cash deal is SoftBank's first major investment in an asset manager.

World Bank Group to conduct training programmes for NBFCs

International Finance Corporation (IFC), part of the World Bank Group, has teamed up with Finance Industry Development Council (FIDC) to conduct training programmes for Non-Banking Finance Companies (NBFCs). The training programmes will be on 'movable asset financing' and 'commercial credit reporting'.

Catholic Syrian Bank's 'name and shame' campaign starts paying dividends

The 'name and shame campaign' initiated by Catholic Syrian Bank Employees and Retirees against wilful defaulters in Kerala seems to have started paying dividends. Of the 30 defaulters identified by the bank with dues of more than ₹50 lakh each, 10 borrowers have already approached the bank with settlement proposals, following dharnas organised at 20 locations in the State.

Government to launch Indradhanush 2.0 for Recapitalization of PSBs

Union Government has decided to launch 'Indradhanush 2.0' for recapitalisation of public sector lenders so that the banks remain solvent and fully comply with the global capital adequacy norms namely Basel-III. The Indradhanush 2.0 programme will be finalised by Reserve Bank of India (RBI) after completion of Asset Quality Review (AQR) being undertaken and is likely to be completed by end of March 2017.

BoB to finance small units in diamond sector at concessional rates

To give a leg up to micro, small and medium enterprises (MSME) in the diamond industry, Bank of Baroda is planning to launch a supply chain financing product for the industry on a pilot basis in Surat. Cutting and polishing units, which procure roughs from large companies and supply finished products back, will be provided finance at a competitive rate of interest.

IDFC Bank, IndiaLends tie-up for loan services to 01st timers

Private sector lender IDFC Bank has collaborated with fintech startup IndiaLends to enable first-time borrowers who do not have a credit history to take loans. Loan requests by salaried applicants without credit history will now be processed on a real-time basis.

RBI to set up panel on strengthening cyber security

In a bid to strengthen cyber security system, the Reserve Bank (RBI) decided to set up an inter-disciplinary panel on cyber security to examine various threats and suggest measures to deal with it. The panel will review the threats inherent in the existing or emerging technology on an ongoing basis. The panel will be headed by Meena Hemachandra.

HDFC Bank, KMB go live with Bharat Bill Payment System

Private sector lenders HDFC Bank and Kotak Mahindra Bank are live with the Bharat Bill Payment System (BBPS) that is aimed at

easing utility and other repetitive bill payments for consumers.

No cash withdrawal limit from March 13,2017: RBI

Reserve Bank of India announced that the cash withdrawal limit on savings accounts will be scrapped from March 13, 2017. Further, the current limit of withdrawal fixed at ₹24,000 per week will be raised to ₹50,000 per week from February 20,2017 the RBI added.

ICICI Securities partners with Saxo Bank

ICICI Securities, a subsidiary of ICICI Bank, entered into a strategic partnership with Saxo Bank, an online multi-asset trading and investment specialist. This partnership will offer Saxo's trading and investment capabilities via a digital platform to Indian investors. It will enable ICICI Securities' 4 million clients of ICICIdirect.com to diversify their investments outside of the domestic Indian market.

Bank of Baroda, IFFCO launch co-branded debit card for farmers

In a novel initiative that would push digitalisation and cashless economy, Bank of Baroda (BOB) has tied up with IFFCO, a cooperative, to provide co-branded debit cards with inbuilt overdraft facilities to the farmers. Under this MOU, two lakh co-branded debit cards will be issued to the farmers beginning with the state of Uttar Pradesh, Bihar, Rajasthan and Madhya Pradesh. BOB has agreed to issue the co-branded debit cards to the farmers with an overdraft limit of Rs. 2,500 per cardholder.

Federal Bank ties up with data portal for loans against warehouse receipts

Federal Bank has partnered with leading online data and information portal Commodity Online for the distribution of loans against warehouse receipts and collateral management services across the country.

Ujjivan Small Finance Bank Starts Pilot Operation in Bengaluru

The Ujjivan Small Finance Bank officially started its operation with 5 pilot branches in Bengaluru. Samit Ghosh is the MD and CEO of the Ujjivan Small Finance Bank. The Bank aims to launch about 14 branches by March 2017 and extend services across 457 branches in 24 states in a planned and phased manner over the next few months.

Axis Bank ties up with Earthport

India's third largest private bank, Axis Bank has tied up with Earthport PLC, a cross-border payment network, to enable faster outbound cross-border payments for its customers through Earthport's state-of-the-art global payments network. Axis Bank has become the first bank in India to connect with Earthport's global payments network, which spans over 60 countries.

Bank of Maharashtra ties up with Cigna TTK

Public sector lender Bank of Maharashtra has partnered with

insurance company Cigna TTK Health to market the insurer's products in the bank's branches across the entire country.

Corp Bank pact with Religare

Corporation Bank has signed an agreement with Religare Health Insurance Co Ltd to market its products and services through the distribution network of the bank across India.

HDFC Bank increases cash transaction fees on savings A/C

In a bid to discourage cash transactions, the country's second-largest private sector lender HDFC Bank has decided to steeply increase the fees for savings account holders on a slew of activities involving cash. HDFC Bank has decided to steeply raise the charges on certain transactions, capping cash component in others and also introducing charges on certain transactions from 01st March 2017.

Govt proposes Payments Regulatory Board in RBI

Finance Minister Arun Jaitley has proposed a creation of a six-member Payments Regulatory Board in the RBI, headed by RBI Governor Urjit Patel as part of bringing about structural reforms in the payment eco-system.

Rs. 10,000 cr allocated for PSB recapitalisation

The Union Budget has allocated Rs. 10,000 crore towards recapitalisation of public sector banks in FY2017-18. Under Indradhanush roadmap announced in 2015, the government stated to infuse Rs. 70,000 crore in state banks over four years while they will have to raise a further Rs. 1.1 lakh crore from the markets to meet their capital requirement in line with global risk norms, known as Basel—III.

ICRA Estimates Banks Credit Growth to Remain Subdued at 5-6% in FY17

As per the report of the rating agency, ICRA, the bank credit growth rate is likely to float between 5-6% in the current fiscal year (2017). The reason cited includes weak loan demand as the rate of return offered by debt market is better in comparison to banks.

Lakshmi Vilas Bank Partners with Fisdom for Mission FINFIT

The private sector lender Lakshmi Vilas Bank in partnership with Bangalore based fin-tech startup firm Fisdom, has launched a mobile application Mission FINFIT to offer the customers of the bank financial planning and personal wealth management services based on Robo advisory.

FGII Enters into Bancassurance Tie-Up with Bank Of Maharashtra

Future Generali India Insurance Company (FGII) announced an agency tie-up with Pune based Bank of Maharashtra. To immensely benefit our customers by providing them an ease of access while choosing from a diverse range of non-life insurance products, all under one roof Bank-of-Maharashtra.

India Post Payments Bank starts pilot services

India Post Payments Bank (IPPB) kicked off its operations by rolling out pilot services in Raipur and Ranchi. The bank will offer an interest rate of 4.5% on deposits up to ₹25,000; 5% on deposits of ₹25,000-50,000 and 5.5% on ₹50,000-1,00,000. The paid up equity of the new bank is ₹800 crore, of which the government has already infused ₹275 crore.

India's Foreign Exchange Reserves Rises by \$ 932.4 million to \$ 360.775 billion

Reserve Bank of India informed that the Foreign Exchange Reserves of India rose by 932.4 million dollars to 360.775 billion dollars for the second consecutive week ended January 20.

SBI Launches Wealth Management Product SBI Exclusif in Kochi

State Bank of India has launched a new wealth management product named 'SBI Exclusif' in Kochi, Kerala. The product was launched by Chief General Manager, SBI, Kerala Circle, S Venkataraman. SBI Exclusif is targeted at fast growing affluent and high net worth customer segments of the bank.

RBI Prohibits FDI in Non-Cooperative Countries

Reserve Bank of India has prohibited the Indian entities from making direct overseas investments in any entity that is located in 'non-cooperative countries and territories', as identified by the inter-governmental body Financial Action Task Force (FATF).

Karnataka Bank inks pact with Tirth Agro Technology

Karnataka Bank Ltd has signed a memorandum of understanding (MoU) with the Rajkot-based Tirth Agro Technology Pvt Ltd (manufacturer of agricultural equipment and implements) for financing agricultural mechanisation.

Rescheduled Education Loan will not be Considered for Computing NPAs: RBI

In a bid to encourage banks to provide loans for education, the Reserve Bank of India has declared that rescheduling the period of payment of education loans due to the inability of the borrower because of unemployment will not be treated as restructured accounts for computing NPAs.

PNB launches Contactless Credit Card

In another digitalisation initiative, Punjab National Bank (PNB) has launched a Contactless Credit Card. This new credit card, which has been named PNB Wave N Pay -Contactless Card, was launched by Usha Ananthasubramanian, Managing Director & Chief Executive Officer, PNB in New Delhi.

Rs 10,000 penalty for late filing of income tax returns

As with the presentation of the Union Budget 2017, Finance Minister Arun Jaitley has made it easier for the small tax-payers, the budget has however proposed a fee for delayed filing of income tax return. If the income tax return is furnished after the due date but on or before the December 31 of the assessment year, there will be a fine of Rs 5,000 imposed. In other cases,

there will be an imposition of a fine of Rs 10,000.

30 More Countries to Join Asia Infrastructure Investment Bank

The Foreign Ministry spokesperson of China, Hua Chunying stated that thirty more countries have applied for joining the Asia Infrastructure Investment Bank (AIIB) besides 57 founding members.

PNB, India Post Bank team up

Punjab National Bank and India Post Payments Bank have signed a memorandum of understanding (MOU), whereby PNB will provide a technology platform for the pilot launch of IPPB on receipt of regulatory nod from the Reserve Bank of India.

Airtel's Payments Bank Starts Operation with Initial Investment of Rs. 3000 Crore

Airtel Payments Bank the first payments bank started its nationwide operations, with an initial investment of Rs 3,000 crore and offering an interest rate of 7.25% for savings accounts. The bank was launched by Finance Minister Arun Jaitley.

119 banks connected with Aadhaar-enabled payment system

The government stated that 119 banks are connected with the Aadhaar-enabled payment system and 33.87 crore transactions have taken place through Aadhaar-enabled payment systems.

Cooperative banks can't accept deposits under PMGKY: Govt

Government has clarified that Co-operative Banks are not authorised to accept deposits under the Pradhan Mantri Garib Kalyan Deposit Scheme (PMGKDS). The scheme allows assesses to disclose previously unaccounted and undeclared income under its ambit.

ECONOMY NEWS

Income Tax Department (ITD) launches Operation Clean Money

Income Tax Department (ITD) lead by Sushil Chandra has launched Operation Clean Money to verify the cash deposited in the banks during November 9th to December 30th 2016. An online Verification process will be carried out by comparing the demonetization data CDBT with information in ITD databases.

I-T dept issues refunds of Rs 1.42 lakh cr this fiscal, 2017

The income tax department has issued refunds of 1.42 lakh crore rupees so far this fiscal. It is 41.5% higher than last year, 2016. The centralised processing centre of the tax department has already processed over 4.19 crore income tax returns and issued over 1.62 crore refunds during the current financial year.

Nomura Projects India's GDP at 5.7 % in January-March quarter, 2017

According to the global financial services major Nomura, the GDP growth of India is estimated to remain low at 5.7% in the January-March quarter, 2017 due to the effect of

demonetization of high value currency.

Centre Allocates Rs. 500 crore to India Post Payments Bank for FY18

Government has allocated an amount of Rs 500 crore to India Post Payments Bank for the financial year 2017-18 to help it in setting up 650 branches across country by September 2017.

Industrial production contracts 0.4% in December, 2016 following demonetisation

Industrial output fell 0.4% in the month of December, 2016 from a year 2015, driven down by a contraction in consumer and capital goods production. It fell 0.4 per cent in December, 2016 as per the data release by the government.

GAAR will be effective from April 1, 2017

The Union Finance Ministry has announced that the General Anti Avoidance Rule (GAAR) will be effective from the 1 April, 2017. GAAR seeks to prevent companies from routing transactions through other countries to avoid taxes. The rules are framed mainly to minimize and check avoidance of tax. India will be the 17th nation in the world to have laws that aim to close tax loopholes.

100% FDI under consideration in food processing sector

Minister of State for Food Processing Industries Sadhvi Niranjana Jyoti has stated 100% Foreign Direct Investment in food processing sector is being actively considered by the Union Government.

Centre releases Rs 2,207cr to J&K as special assistance during 2017 financial year

Centre has sanctioned over 2,207 crore rupees to Jammu and Kashmir as special assistance during the 2017 financial year to expedite completion of area-specific schemes. This includes over 1093 crore rupees for permanent restoration of damaged structure in the state.

Only cash, deposits can be declared under PMGKY

Undisclosed income in assets such as jewellery, stock or immovable property or in foreign bank accounts will not be accepted under the Pradhan Mantri Garib Kalyan Yojana (PMGKY).

Cabinet clears proposals for listing 5 PSU general insurers

The Cabinet has given its in-principle nod for a listing of all the five general insurance companies. The five general insurance companies are the New India Assurance Company Ltd, United India Insurance Company Ltd, Oriental Insurance Company Ltd, National Insurance Company Ltd and General Insurance Company Ltd.

Govt sells 2% stake in ITC, raises Rs 6.7k cr

The government has sold two per cent stake in ITC to Life

Insurance Corporation of India (LIC) and earned Rs 6,690 crore (around \$1 billion) as part of its divestment plan for 2016-17. The stake, held under the so-called Specified Undertaking of the Unit Trust of India (SUUTI), was sold at Rs 275.85 per share through block deals.

CBDT signs four more Unilateral Advance Pricing Agreements (APAs)

Central Board of Direct Taxes (CBDT), Department of Revenue, Ministry of Finance has entered into four more unilateral Advance Pricing Agreements (APAs). The four APAs signed pertain to the Manufacturing, Financial and Information Technology sectors of the economy. With this, the total number of APAs entered into by the CBDT has reached 130.

GDP growth likely at 7.1% in 2017-18: HSBC

India is expected to clock GDP growth of 7.1 percent in 2017–18 as the country gets sufficiently remonetized and the schemes in the Budget play a supportive role, says an HSBC report. HSBC expect GDP to grow at 7.1 per cent year-on-year in 2017-18, up from 6.3 per cent in 2016-17.

Fiscal deficit reaches 94% of the budget estimate

Fiscal deficit in the first nine months of 2016-17 touched 93.9% of the Budget estimate. The fiscal deficit is the gap between expenditure and revenue. According to data released by the Controller General of Accounts, tax revenue was 71.4% of the full-year budget estimate.

Govt clears six FDI proposals worth Rs. 1186.5 crore

The government has cleared six foreign direct investment (FDI) proposals totalling ₹1186.5 crore. These include four from pharmaceutical companies including Sanofi-Synthelabo and Boehringer Ingelheim.

ICICI Pru acquires 8.41% stake in Fino Paytech for Rs 100 crore

ICICI Prudential Life Insurance has acquired 8.41% stake in Fino Paytech Ltd (FPL) for a total consideration of Rs 100 crore. FPL provides technology-based solutions and services related to financial inclusion. Earlier this month, FPL was granted payment bank licence by the RBI.

IMF cuts India's growth rate to 6.6% due to Demonetization

The International Monetary Fund (IMF) has cut India's growth forecast for the current fiscal by one percentage point, citing demonetisation woes from 7.6% to 6.6%. It sees India ceding the tag of the world's fastest growing major economy to China in FY17.

BUSINESS NEWS

Pharmaceutical Firm Johnson & Johnson to Buy Actelion for \$30 Billion

The U.S. healthcare giant Johnson & Johnson buys Switzerland

based bio-pharmaceutical firm, Actelion, for \$30billion (27.9 billion euros).

MakeMyTrip launches India's 1st social luxury travel magazine

India's largest online travel portal has launched the first ever social luxury travel magazine called 'Luxury Travel Times'. The mobile-only magazine is targeted at luxury travellers and is released through innovative ad platforms like Facebook Canvas & Instagram-Stories.

T-Hub launches 'GIS Innovation Hub' powered by Esri India

T-Hub, the start-up engine catalysing innovation, has announced the launch of 'GIS Innovation Hub' (GIH) for start-ups. The GIH is powered by Esri India, the Geographic Information System (GIS) software and solutions provider.

Team Indus proposes nameplate on the Moon for Rs.500

A Bengaluru start-up Team Indus proposes nameplate on the Moon for Rs.500. Indians are being offered the opportunity to leave their name on the moon, for a price.

Alibaba Becomes Worldwide Sponsor of Olympic Games through 2028

The International Olympic Committee (IOC) and Chinese e-commerce firm Alibaba Group entered into a long-term partnership through 2028 at the World Economic Forum in Davos, Switzerland. This makes Alibaba the worldwide sponsor of Olympic Games through 2028.

Apple named most innovative company of 2016

Technology giant Apple has emerged as the most innovative company for 2016, according to Boston Consulting Group's (BCG's) annual list which ranks world's 50 most innovative firms for the 11th straight year. Google was ranked second, followed by electric carmaker Tesla on the list.

Startup acquires Google's satellite imaging business

American startup Planet Labs, that launches small satellites into orbit and sells the imagery, has announced its acquisition of Google's 'Terra Bella' satellite business. As part of the agreement, 60 Google employees will join the startup founded by ex-NASA scientists.

Apple to start manufacturing in India

Tech giant Apple has reached an agreement with the Karnataka government to set up a manufacturing plant in Bengaluru, Karnataka. Apple is reportedly expected to start production for the Indian market in April.

Vodafone to invest Rs 3,000 cr in West Bengal in next 3 years

Vodafone India signed an MoU with the West Bengal government to invest Rs 3,000 crore for capacity augmentation and new business initiatives over next three years. The MoU signed on the sidelines of Bengal Global Business Summit 2017.

Alibaba's financial arm acquires MoneyGram

Ant Financial, e-commerce giant Alibaba's financial arm, has reached an agreement to acquire American money-transfer major MoneyGram for \$880 million, in a deal that will expand the firm's business in the US after India and Thailand.

IRDAI okays Swiss Re move to open Mumbai branch

Wholesale reinsurance provider Swiss Re has received approval from the Insurance Regulatory and Development Authority of India (IRDAI) to open a branch in the city. With the composite branch license, Swiss Re will be able to operate in India and it can offer both non-life and life and health reinsurance solutions directly to clients and brokers in the country.

Lloyd's Gets Final Approval from IRDAI to Open First Branch in India

London's insurance giant Lloyd has received the final approval from the Insurance Regulatory and Development Authority (IRDA) to set up its first branch in India. The specialist insurance and reinsurance company would open its first branch office in India before April 2017 and will be located at Mumbai.

AGREEMENTS/MOU SIGNED

Maini Precision ties up with Marshall Aerospace

Maini Precision Products (MPP) and Marshall Aerospace and Defence Group, Cambridge, UK, have entered into a multimillion dollar contract for structural machined parts and sub-assemblies for a major aircraft programme.

Raytheon signs MoU with TASL for co-production of Stinger missile components

Raytheon Company has signed a memorandum of understanding (MoU) with Tata Advanced Systems Ltd (TASL) to engage in the co-production of Stinger air defence missile components. As part of the agreement, TASL will produce components of the Stinger missile in India.

HAL signs MoU with CPWD to build helicopter facility at Tumakuru, Karnataka

Hindustan Aeronautics Limited (HAL), signed MoU with Central Public Works Department (CPWD) for execution of infrastructure development works at HAL's new Greenfield helicopter facility at Tumakuru, Karnataka.

PNB Housing Finance limited & CREDAI-West Bengal Signs MoU

Addressing the need of pacing up constructions with skilled labour that would result in quicker delivery and handovers, PNB Housing Finance Limited (PNBHFL) has signed an MOU with CREDAI West Bengal to train 1000 construction workers in Kolkata and nearby villages.

Muthoot Exim, Divine Solitaires tie up

Muthoot Exim has tied with Divine Solitaires Pratham to retail

Swarnavarsham diamond jewelry. To start with, the company will offer 18-karat gold rings studded with 0.14 cents diamond of EF colour and VVS clarity.

Airbus signs MoU for setting up centre of excellence in Hyderabad

The multinational Airbus Group division joined hand with Telangana government for setting up centre of excellence in Hyderabad at Begumpet Airport for aerospace skill development.

L&T and MBDA Missile Systems Forms JV to Develop Missiles in India

Larsen & Toubro Limited (L&T), an Engineering and construction major has entered into a Joint Venture with European defence major MBDA Missile Systems. The main aim of the JV is development of missiles in India under the Make in India initiative while procuring the missile systems from abroad.

Ruchi Soya ties up with Patanjali

Ruchi Soya Industries Ltd has signed an agreement with Baba Ramdev promoted Patanjali Ayurved Ltd for physical refining and packaging of edible oils. The agreement is valid initially for three years. As per the agreement, Ruchi Soya Industries would process the crude oil provided by Patanjali Ayurved and pack the refined oil as per their specifications.

US National Security Adviser Michael Flynn resigns over his contacts with Russia

In the United States, National Security Adviser Michael Flynn has resigned over his contacts with Russia. Mr Flynn is alleged to have discussed US sanctions with the Russian Ambassador before President Donald Trump took office.

Thailand seeks India's partnership in pharma, bio-tech

Thailand is seeking India's cooperation in a number of sectors, such as aerospace, automation, medical devices, pharmaceutical, bio-technology and IT/ITes, as it strives to transform into a value-based economy.

Nokia to acquire Finnish telecom software company Comptel for \$371 million

Finland multinational communications and information technology company Nokia announced to buy telecoms software firm Comptel for 347 million euros (\$371 million). The aim of the acquisition to help phone carriers manage their networks as mobile and more and more rely on software to improve their networks.

KSEZ, signs MoUs With Firms to Set Up Manufacturing Units at Kakinada SEZ

Kakinada SEZ Ltd (KSEZ), a subsidiary of GMR Infrastructure Limited (GIL), signed several MoUs with various companies during the CII Partnership Summit 2017 held on GMR at

Visakhapatnam, Andhra Pradesh. The MoU aimed at setting up World Class manufacturing units at the Kakinada SEZ in Andhra Pradesh spread over 8,500 acres at a cost of Rs. 47000 crore.

Gokaldas Exports to set up manufacturing units in Chittoor district

Gokaldas Exports has entered in to a memorandum of understanding (MoU) with the Andhra Pradesh Government for setting up four apparel manufacturing units in Chittoor district over next three years. The company plans to invest up to Rs. 200 crore which is likely to generate approximately 5,000 new jobs.

Telangana signs MoU for aero skill academy

Telangana government has signed a memorandum of agreement with French firm Aerocampus Aquitaine, known for aircraft maintenance skill training, to create a world-class aero skill academy.

India UK Join Hands to Launch Project to Tackle Delhi Air Pollution Risks

India has partnered with the British experts (UK) over a project that aims to study the air pollution level in Delhi and health problems associated it.

India and UAE sign 14 agreements after delegation level talks between PM Modi & visiting Crown Prince of Abu Dhabi

India and the UAE inked 14 agreements in various areas including in defence, maritime transport, comprehensive strategic partnership, shipping, agriculture and allied sector, trade, oil storage and management, energy efficiency, road transport and highways and prevention and combating human trafficking. The agreements were signed after delegation level talks between Prime Minister Narendra Modi and visiting Crown Prince of Abu Dhabi Sheikh Mohammed Bin Zayed Al Nahyan at Hyderabad House in New Delhi.

BookMyShow acquires MastiTickets

BookMyShow has acquired MastiTickets, an online ticket booking firm, for an undisclosed amount. The two-year-old Hyderabad start-up has presence in Andhra Pradesh and Telangana.

CCI Approves Merging MakeMyTrip with Ibibo Group

The Competition Commission of India (CCI) has approved the proposed merger of online travel firm MakeMyTrip's Indian travel business with rival Ibibo Group.

Kwality Ltd Signs MoU with Bank of Baroda for Rs 4000 Cr Loan to Farmers

Mumbai based dairy firm Kwality Ltd has signed an MoU with Bank of Baroda to provide Rs. 4000 crore loans to one lakh farmers out of the established networks from whom the company procures milk.

India Signs Financing Agreement of \$48 million with World Bank for Nagaland Health Project

India has signed a financing agreement with the World Bank for 48 million dollars for Nagaland Health Project. The objective of the project is to improve health services in Nagaland. Communities in targeted locations will benefit from project activities at the community and health facility levels.

NEW APPOINTMENTS

Five new Supreme Court judges take oath, apex court now has 28 justices

Five Supreme Court judges took oath of office. With the swearing in of Justice Sanjay K Kaul, Justice Mohan Shantanagoudar, Justice S A Nazeer, Justice Navin Sinha and Justice Deepak Gupta, the total strength of the Supreme Court now stands at 28, three short of its sanctioned strength of 31.

Banks Board Bureau Appoints Eight Executive Directors in Various Banks

Eight Executive Directors (EDs) have been appointed in various public sector banks on the recommendations of Banks Board Bureau Initially, they have been appointments for a three-year period.

- i. Neelam Damodharan and Atanu Kumar Das appointed as EDs in Bank of India.
- ii. K Swaminathan appointed as ED in Indian Overseas Bank.
- iii. Ashok Kumar Pradhan appointed as the ED in United Bank of India.
- iv. P Ramana Murthy will be Executive Director of Central Bank of India.
- v. Fareed Ahmed Khan appointed as the ED in Punjab and Sind Bank.
- vi. M K Bhattacharya appointed as the EDs of Indian Bank
- vii. S Harishankar appointed EDs of Allahabad Bank.

Sunil Mehta appointed non-executive Chairman of PNB

Punjab National Bank (PNB) has a new non-executive Chairman in Sunil Mehta. Appointments Committee of the Cabinet (ACC) has approved the proposal of the Department of Financial Services (DFS) for the appointment of Mehta as non-executive Chairman of PNB.

Vikas Swarup appointed High Commissioner to Canada

Ministry of External Affairs (MEA) spokesperson Vikas Swarup has been appointed the new High Commissioner to Canada.

Nilesh Shivji Vikamsey appointed new President of ICAI

Nilesh Shivji Vikamsey elected as the new President of the Institute of Chartered Accountants of India (ICAI) for the year 2017-18. The 40-member Central Council of the Institute of Chartered Accountants of India (ICAI) also elected Naveen N D Gupta as the Vice-President.

Tehmina Janjua Appointed First Women Foreign Secretary of Pakistan

Pakistani Career diplomat Tehmina Janjua appointed as the Foreign Secretary of Pakistan by Prime Minister Nawaz Sharif. She is the first women to be appointed on the post and will serve as the 29th Foreign Secretary of Pakistan.

Joe Root Becomes New Test Captain of England

The England and Wales Cricket Board named Joe Root as England's Test captain who will take over Alastair Cook. Durham all-rounder Ben Stokes has been named as the vice-captain.

Frank Walter Steinmeier Elected New President of Germany

Germany's former Foreign Minister, Frank-Walter Steinmeier has been elected as the new President of Germany. He is due to take office as the 12th Federal President of Germany on 19 March 2017. & will succeed incumbent President Joachim Gauck.

Sandeep Jajodia appointed Assocham President

Monnet Ispat & Energy Ltd. CMD Sandeep Jajodia has been appointed the new president of industry chamber Assocham. Balkrishan Goenka, Chairman, Welspun Group and Kiran Kumar Grandhi, vice-chairman of GMR Infrastructure Ltd, have taken over as senior vice-president and vice-president respectively.

Narinder Chauhan appointed as Ambassador to the Republic of Philippines

Former IFS officer Narinder Chauhan has been appointed as the next Ambassador of India to the Republic of the Philippines. Currently Narinder Chauhan is working as the Ambassador of India to the Republic of Serbia.

Diego Maradona Gets Ambassador Role at FIFA.

The FIFA governing body has named Argentina's former soccer player Diego Maradona as the new Ambassador of the FIFA .

Neelu Rohmetra is the first woman to be appointed director of an IIM at Sirmaur

The government recently appointed heads of 10 Indian Institutes of Management (IIMs), including the first woman to head one of the 20 premier B-schools in the country. The IIMs that got new directors are in Bodhgaya (Bihar), Sirmaur (Himachal Pradesh), Visakhapatnam (Andhra Pradesh), Trichy (Tamil Nadu), Nagpur (Maharashtra), Sambalpur (Odisha), Raipur (Chhattisgarh), Rohtak (Haryana), Ranchi (Jharkhand) and Bangalore. Prof Neelu Rohmetra of Jammu University is the first woman to be appointed director of an IIM at Sirmaur. She specialises in HRD and cross-culture management.

Govt. appoints IAS officer Ajay Tyagi as SEBI chief for 5 years

Senior Finance Ministry official Ajay Tyagi has appointed as chairman of Securities and Exchange Board of India (SEBI). He will succeed U K Sinha, whose extended tenure ends on 01st

March 2017.

Hemant Bhargava appointed as LIC's MD

Hemant Bhargava has appointed as Managing Director of state-owned Life Insurance Corporation (LIC) of India. He is at present LIC's zonal manager, Delhi.

Govt appoints 3 directors on RBI Central Board

The Government has appointed three part-time Non-Official Directors on the all-powerful Central Board of the Reserve Bank of India for a four-year term. The Appointments Committee of the Cabinet (ACC) has appointed Ashok Gulati, Manish Sabharwal and Rajiv Kumar as part-time Non-Official Directors on the Central Board.

US Senate votes to confirm Jeff Sessions as next US Attorney General

In US, Senate has voted to confirm Republican Senator Jeff Sessions as the next Attorney General of the United States.

Adani appoints Purdie as CEO for renewable energy unit in Australia

The Adani Group has appointed Jennifer Purdie as the Chief Executive Officer (CEO) for its renewable energy business unit in Australia in a bid to drive its plans to become the largest renewable energy player in the country.

Arun Kumar succeeds Richard Reky as KPMG India chairman

KPMG India board has elected Arun M Kumar as chairman and CEO to lead the India operations of the consulting and accounting major. He succeeds Richard Reky.

IDFC MD Vikram Limaye the new CEO, MD of NSE

Leading stock exchange National Stock Exchange (NSE) has selected IDFC chief Vikram Limaye as its new CEO and Managing Director, two months after the sudden exit of Chitra Ramkrishna from the top post.

Sanjeev Sanyal appointed Principal Economic Adviser

Sanjeev Sanyal, former global strategist and Managing Director of Deutsche Bank, has appointed as Principal Economic Adviser. The Appointments Committee of Cabinet has approved Sanyal's appointment for three years on a contract basis, an order issued by Personnel Minister said.

Moussa Faki Mahamat appointed as new African Union (AU) head

Chadian foreign affairs minister Moussa Faki Mahamat has been elected as the head of African Union (AU) Commission. He will replace Nkosazana Dlamini-Zuma.

Alok Verma takes charge as new CBI Director

Former Delhi Police Commissioner Alok Verma took charge as the new CBI Director. He will hold the charge of the premier

investigating agency for a period of two years.

Amulya Patnaik appointed as Delhi Police Chief

IPS officer from Union Territories cadre, Amulya Patnaik is appointed as Chief of Delhi police. He is succeeded by Alok Verma, who has been moved as the director of CBI.

Ashok Amritraj Appointed UN in India Goodwill Ambassador

Film producer and Wimbledon tennis player, Ashok Amritraj has been appointed the United Nations in India Goodwill Ambassador for the Sustainable Development Goals. Amritraj is the first Ambassador for the UN in India. He is responsible to generate momentum and commitment to achieve the SDGs by 2030.

Dushyant Chautala is new TTFI president

Dushyant Chautala has been appointed as the president of the Table Tennis Federation of India (TTFI). Chautala is the youngest president of the apex body. His term, which is for four years, extends until 2021.

SC appoints former CAG chief Vinod Rai as BCCI chief

Supreme Court (SC) appointed former Comptroller and Auditor General (CAG) chief Vinod Rai as BCCI chief, along with noted historian Ramachandra Guha and IDFC MD & CEO Vikram Limaye as administrators of the sport body.

AP Singh is interim head of Postal Bank

India Post Payments Bank (IPPB), floated by the postal department, has received Reserve Bank of India's final nod to commence commercial operations. The Centre has appointed AP Singh as the interim Managing Director and CEO of IPPB.

Ex-HC judge Vishwanath Shetty sworn in as Karnataka Lokayukta

Former high court judge Justice P Vishwanath Shetty was sworn in as the Karnataka Lokayukta by governor Vajubhai R Vala.

President appoints Banwarilal Purohit as Governor of Meghalaya

President Pranab Mukherjee has given Governor of Assam Banwarilal Purohit additional charge of Meghalaya. Besides, President also gave Governor of Nagaland PB Acharya additional charge of Arunachal Pradesh.

Siddhartha Murarka is now ICSI Chairman

Siddhartha Murarka has been appointed as the Chairman of the Eastern India Regional Council of The Institute of Company Secretaries of India (ICSI).

Dr Vijay Bhatkar appointed new vice-chancellor of Nalanda University

President Pranab Mukherjee has appointed Dr Vijay Bhatkar, architect of India's first supercomputer the Param series, as the

chancellor of Nalanda University. He will have term of three years & shall succeed George Yeo.

Trump appoints Indian-American attorney to key White House post

US President Donald Trump has appointed prominent Indian-American attorney Uttam Dhillon to a key White House position. He has been appointed as special assistant to the President on ethics and compliance matters.

Meghalaya Governor resigns after allegations of sexual misconduct

Meghalaya Governor V Shanmuganathan has resigned after a controversy was triggered by reports in local media, which accused him of sexual misconduct. 67-year-old Shanmuganathan tendered his resignation from the post.

Virender Sehwag Named Kings XI Punjab Brand Ambassador

Kings XI Punjab have appointed Virender Sehwag as their head of cricket operations and strategy, and brand ambassador too for the upcoming season of the Indian Premier League (IPL).

Nikki Haley confirmed as new US envoy to UN

In United States, the Senate has confirmed Nikki Haley as the next Ambassador to the United Nations, making her the first Indian-American to serve on a Cabinet rank position in any presidential administration.

Birender Singh Yadav and Ashok Warriar accredited as the Ambassadors

Shri Birender Singh Yadav, presently High Commissioner of India to Ghana, has been concurrently accredited as the Ambassador of India to the Republic of Burkina Faso. Shri Ashok Warriar, has been concurrently accredited as the Ambassador of India to the Republic of Congo.

Foreign Secretary Jaishankar gets one-year extension

Foreign Secretary S Jaishankar, whose tenure was to end on January 28, 2017 got a one-year extension. The nod for the extension of his tenure till January 28, 2018 was given by the Appointments Committee of the Cabinet.

Ola appoints former PepsiCo executive Vishal Kaul as COO

Transportation app Ola has appointed former PepsiCo executive Vishal Kaul as its Chief Operating Officer. He succeeds Pranay Jivrajka, who has been appointed as Founding Partner.

N Chandrasekaran appointed Tata Motors chairman

Tata Motors which owns Jaguar LandRover Automotive Plc, Ltd has finally appointed Natarajan Chandrasekaran, the Tata Sons chairman-designate, and outgoing chief executive of Tata Consultancy Services (TCS), as additional director and chairman of the board with immediate effect.

Donald Trump sworn in as 45th US President

Mr. Donald Trump has taken over as the 45th President of the United States, he took over the reins from Barack Obama 20 January 2017 amid expectations of radical change in policies and apprehension at home and abroad.

Ex-BCCI president Anurag Thakur to head Himachal Olympic Association

Ex-BCCI president Anurag Thakur has unanimously elected head of the Himachal Pradesh Olympic Association (HPOA) for a four-year term.

Bharti AXA General appoints Sanjeev Srinivasan as CEO, MD

Bharti AXA General Insurance has appointed Sanjeev Srinivasan as CEO and Managing Director.

Antonio Tajani elected president of European Parliament

Antonio Tajani of the EPP Christian Democrat group has been elected president of the European Parliament.

Rajeev Singh to Take Charge as Interim CEO of Prasar Bharati after S C Panda

Rajeev Singh, Member of Prasar Bharati Board will take charge as interim CEO of the public broadcaster Prasar Bharati. He will replace S C Panda.

UN appoints Director of UNIC in New Delhi

Derk Segaar has been appointed Director of the New Delhi based United Nations Information Centre (UNIC) covering India and the Kingdom of Bhutan by the UN Secretary-General António Guterres.

OBITUARIES

Winning Legendary Jazz Singer Al Jarreau Dies at 76

Legendary American jazz singer Al Jarreau passed away in Los Angeles. He was 76. Al Jarreau was nicknamed as 'Acrobat of Scat' for his unique singing style.

Veteran Journalist T V Parasuram Passed Away

Former correspondent of the Press Trust of India, T V Parasuram passed away. He was 93. Parasuram has won a Harvard Niemen Fellowship in journalism.

Jiro Taniguchi, a Japanese manga legend Dies at 69

Jiro Taniguchi, a Japanese manga writer died in Tokyo. He was 69. Taniguchi began his career as an assistant to the artist Kyota Ishikawa. His own first piece of manga was published in the year 1970 named 'A Desiccated Summer'.

Eminent journalist and Laughter Persona Pandit Dharmasheel Chaturvedi Dies

The eminent thinker, writer and journalist Pandit Dharmasheel Chaturvedi passed away. The Hindi Kavi Pt. Dharmasheel

Chaturvedi was considered 'Swayam Mein Benaras' means 'Banaras in Himslef' in elite circle.

MRI pioneer and Nobel laureate Sir Peter Mansfield passes away at 83

UK physicist and Nobel laureate Sir Peter Mansfield has died. He was 83. Peter led a team of experts who revolutionized science and worked on MRI scans.

Jiro Taniguchi, legend in Japan's comic art of manga, dies at 69

Jiro Taniguchi, a legend in Japan's comic art of manga, died at the age of 69. Taniguchi achieved an international following with works such as The Walking Man, The Summit of the Gods and The Magic Mountain.

Col Nizamuddin who drove around Netaji has passed away

Netaji Subhash Chandra Bose's driver and INA veteran 'Colonel' Nizamuddin has passed away in his native village of Dhakwa in Azamgarh after a prolonged illness.

Freedom fighter Racharla Samrajyam has passed away

Racharla Samrajyam, a veteran freedom fighter, passed away following the age-related illness at Vishakhapatnam. She was 98.

Renowned Urdu author Bano Qudsia passes away

Renowned Pakistani Urdu novelist and playwright Bano Qudsia has passed away. She was 88. She was awarded Sitara-i-Imtiaz in 2003 and Hilal-i-Imtiaz in 2010.

Former CBI chief Joginder Singh passes away

Former CBI chief Joginder Singh, who oversaw an investigation of several high-profile cases including Bofors scam and Bihar's fodder scam has passed away at aged 77 years.

Former Minister E Ahamed Dies After Suffering Cardiac Arrest

Former Union Minister E Ahamed, who collapsed in parliament, has died. He was 78.

Veteran journalist Devdutt passes away

Veteran journalist Devdutt passed away. He was 88. He was Gandhian since his early days and was present at Birla House in the lawn when Mahatma Gandhi was assassinated on January 30, 1948.

Hollywood Legend & Harry Potter actor John Hurt dies at 77

Sir John Hurt, the British actor who starred in The Elephant Man and Harry Potter, John Hurt dies at 77 at his residence in Norfolk, London due to Cancer. He was 77.

US Emmy award-winning actress Mary Tyler Moore has passed away

Emmy award-winning US actress Mary Tyler Moore has passed away at the age of 80. She was best known for her television roles in the 1960s The Dick Van Dyke Show and the eponymous

The Mary Tyler Moore Show in the 1970s.

Russian envoy Alexander Kadakin passes away

Russian Ambassador Alexander Kadakin, a fluent Hindi-speaking career diplomat considered a great friend of India, passed away at a hospital here after a brief illness. He was 67.

Urdu poet, lyricist Naqsh Lyallpuri dies at 88

Renowned Urdu poet Naqsh Lyallpuri died at the age of 88. Born in Llalpur in the part of Punjab now in Pakistan, Lyallpuri came to Mumbai in the late 1940s to make a career in Hindi cinema.

C.V. Vishveshwara Pioneer of Black Hole Discovery Dies at 78

Veteran Indian Scientist CV Vishveshwara and pioneer in the discovery of black hole in India died of prolonged illness. He was 78.

Eugene Cernan, the Last Human on the Moon Passed Away at 82

The commander of Apollo 17 and the last man who walk on the moon, Astronaut Eugene Cernan, the Last Human on the Moon has Passed Away at 82. Cernan was flied to space three times and to moon twice.

Former Chhattisgarh minister Tarun Prasad Chatterjee no more

Senior Congress leader and former state minister of Chhattisgarh, Tarun Prasad Chatterjee has passed away. He was 68. Tarun was elected as member of Legislative Assembly for the first time from Raipur rural constituency in 1980, 1990, 1993 and 1998.

Renowned Actress Gita Sen Passes Away

Veteran actress Gita Sen who was the wife of renowned filmmaker Mrinal Sen passed away in Kolkata of cerebral hemorrhage. She was 86. She is known for her excellent work in films like Chorus, Calcutta 71, Kharij, Akaler Sandhane, Ekdin Pratidin and Khandahar.

National award-winning filmmaker Deepak Roy dead at 67

Deepak Roy, known for his movie "Limit to Freedom" has won a National award in 1996 under the category of best investigative film, has passed away at the age of 67 after suffering a cardiac arrest.

AWARDS

Melody Queen Lata Mangeshkar honoured with 'Legendary Award ' 2017

Melody Queen Lata Mangeshkar has been honoured with the 'Legendary Award ' 2017 by Brand Laureate. The Brand Laureate Awards recognize world-class achievement in branding amongst individuals and companies.

Ashok Chakra to Havildar Hangpan Dada for sacrificing his life for nation

Havildar Hangpan Dada, who killed four terrorists before laying down his life in Kupwara on May 26 last year, has been awarded Ashok Chakra, the highest peace time gallantry award. His wife Changsen received the award from the President Pranab Mukherjee during the 68th Republic Day Parade in New Delhi.

Veteran Hindi Scholar and Novelist Surendra Verma Selected for 2016 Vyas Samman

Renowned Hindi litterateur and playwright Surendra Verma has been selected for 2016 Vyas Samman for his novel Kaatna Shami Ka Vriksha Padma Pankhuri Ki Dhar Se.

Yo-Yo Ma and his ensemble win Best World Music Grammy

Cello virtuoso Yo-Yo Ma won a Grammy with his Silk Road Ensemble for Sing Me Home, an exploration of the musical connections across Eurasia. The French-born Chinese American cellist had previously won an impressive 17 Grammys, but his latest is his first for Best World Music Album.

Grammy Awards to include first-ever transgender 'trophy girl'

The three trophy handlers at the ceremony are transgender model Martina Robledo; model and actor Derek Marrocco, and model and actress Hollin Haley. The ceremony host is James Corden.

UNO ropes in Satinder Sartaaj for campaign against trafficking

Folk singer from Punjab Satinder Sartaaj has been selected for the awareness project against human trafficking 'Blue Heart Campaign' by the United Nations Office on Drugs and Crime (UNODC). The 34-year-old artist has collaborated with other celebrated Indian musicians like AR Rahman and Sonu Nigam in this drive to spread awareness about the illegal practice through 'Music to Inspire' album.

GMR Hyderabad Airport bags CAPA award

GMR Hyderabad International Airport Ltd, which operates Rajiv Gandhi International Airport, has won the Centre for Asia Pacific Aviation (CAPA) Chairman's Order of Merit for its focus on environmental sustainability and becoming the first in the Asia-Pacific region in the 5-15 million passengers per annum category to attain this status.

Indian-Origin British Sculptor Anish Kapoor Wins \$ 1 Million Israeli Prize

Renowned Indian-origin British sculptor Anish Kapoor was honored with the prestigious \$1 million 2017 Genesis Prize by Israel for his utmost contribution for Jewish community.

G.N. Rao to be inducted into Ophthalmology Hall of Fame

Gullapalli N. Rao, a noted Indian eye doctor, has been selected to the 2017 Ophthalmology Hall of Fame instituted by the American Society of Cataract and Refractive Surgery. The

founder and chair of the LV Prasad Eye Institute, Hyderabad, Rao will be honoured at the induction ceremony in Los Angeles.

Alastair Cook awarded Order of the British Empire

England Test captain Alastair Cook has been honoured with Commander of the Most Excellent Order of the British Empire (CBE). He was awarded the CBE at the Buckingham Palace by Prince Charles.

Rajasthan, Telangana bag eGov awards

This year (2017), under the State category, Rajasthan and Telangana emerged Winners of Excellence while the Award of Recognition went to Odisha and Nagaland.

France's Iris Mittenare wins Miss Universe 2016

Miss France Iris Mittenare was crowned Miss Universe 2016 at the Mall of Asia Arena. Miss Colombia Andrea Tovar won second runner-up. Miss Haiti Raquel Pelissier won first runner-up.

National Geoscience Award for Keshav Krishna

A Keshav Krishna, a scientist at the National Geophysical Research Institute (NGRI) has been selected for the National Geoscience Award for 2016. The award given by the Union Ministry of Mines is in recognition of his work in the field of geo-environmental studies.

Sena medal for 3 soldiers who gunned down Burhan Wani

3 personnel from the Rashtriya Rifles unit of the Indian Army have been awarded the Sena Medal for killing Hizbul Mujahideen commander Burhan Wani. Major Sandeep Kumar, Captain Manik Sharma and Naik Arvind Singh Chauhan led the operation on July 8, 2016.

Venezuela awards peace prize to Russia Prez Vladimir Putin

Venezuelan President Nicolás Maduro has awarded the first ever Hugo Chavez Prize for Peace and Sovereignty to Russian President Vladimir Putin. The award, that honours Venezuela's former President Hugo Chavez, recognised "Putin as a great leader of peace".

ISKCON's Govardhan eco village bags UNWTO award

ISKCON's Govardhan eco village in Thane district has been conferred with the UNWTO Award for Innovation in the category of Non-Governmental Organisations(NGO) at the annual United Nations World Tourism Organisation (UNWTO) Awards for Excellence and Innovation in Tourism at Madrid in Spain.

Punjab Royals bagged ProWrestling League Season 2 title

Punjab Royals have bagged the Pro Wrestling League Season 2 title. In the summit clash in New Delhi, the Punjab team beat Haryana Hammers 5-4.

Kapil Dev inducted into Legends Club Hall of Fame

Cricket icon Kapil Dev was inducted into Legends Club 'Hall of

Fame' at the Cricket Club of India. Former India player and Legends Club president Madhav Apte presented Kapil with a citation.

Kiran Doshi won The Hindu Prize 2016

Kiran Doshi has won The Hindu Prize 2016 at the 7th edition of The Hindu Lit for Life festival 2017 held in Chennai.

DEFENCE NEWS

2017 Cobra Gold Exercise Begins in Thailand

The 2017 Cobra Gold Military Exercise kicked off at the Sattahip Royal Thai Marine Corps Base in Chonburi Province, Thailand. Cobra Gold 2017 is the 36th edition of the multinational drill and is co-organized by United States and Thailand. As many as 30 nations are participating in the drill including China, India, Singapore, South Korea and Malaysia, who are either involved in or are observing the exercises.

Reliance Defence Signs Master Ship Repair Agreement with US Navy

Reliance Defence and Engineering Ltd (RDEL) has signed a Master Ship Repair Agreement (MSRA) with US Navy to perform repair and alteration services for US Navy's Seventh Fleet vessels.

Reliance Defence Signs Contract with Ministry of Defence

Reliance Defence and Engineering Ltd (RDEL), a wholly owned arm of Reliance Infrastructure Ltd (RInfra), has signed a contract worth Rs. 916 crore with the Ministry of Defence to design and construct 14 Fast Patrol Vessels for the Indian Coast Guard.

Indian Navy's Theatre Level Exercise, TROPEX 17 Begins

The Theatre Readiness Operational Exercise (TROPEX), an annual Indian Navy exercise kicked started off the Western Seaboard. TROPEX 17 exercise is aimed at testing combat readiness of the combined fleets of the Indian Navy, and the assets of the Indian Air Force, Indian Army and the Indian Coast Guard.

India's biggest aircraft carrier ship INS Vikramaditya first to have ATM onboard

The largest warship of the Indian Navy, INS Vikramaditya, will be equipped with its own dedicated ATM. It will cater to over two thousand naval personnel deployed on the aircraft carrier. India's largest public sector bank State Bank of India is providing the Navy the services for the ATM which will be on the satellite link.

Axiscades partners Slovakian firm

Axiscades, aerospace and defence technologies company and Virtual Reality Media a Slovakian firm have signed an industrial cooperation agreement (ICA) at the Aero India 2017. Under the ICA, both companies will evaluate opportunities for full flight simulator for the aerospace and defence sector and to address

the requirements for Russian platforms such as the Dornier 228 aircraft and other platforms.

US, Japan successfully intercept missile in space

The US and Japanese military have successfully tested the Standard Missile-3 (SM-3) Block IIA missile defence system by intercepting a medium-range ballistic missile target in space for the first time. The missile was launched from a ship off the west coast of Hawaii, US.

India & US agree to sustain momentum on defence efforts

India and US have agreed to sustain the momentum on key bilateral defence efforts. US Defence Secretary James Mattis telephoned Defence Minister Manohar Parrikar and expressed commitment to build upon the tremendous progress made in bilateral defence co-operation.

Indian Coast Guard to have Joint Exercise with UAE Coast Guard

In an effort to strengthen the bilateral relations between India and UAE, the Indian Coast Guard Ship (ICGS) Samudra Pavak made a goodwill visit at the Mina Al Rashid (Dubai Port).

topped by the US, whereas China and Japan are at tie for being on the second spot.

India ranked 79th in the Corruption Perception Index 2016

India has been ranked at 79th spot out of 176 countries in the Corruption Perception Index (CPI) for the year 2016 released by the Berlin-based corruption watchdog Transparency International (TI). New Zealand and Denmark jointly shared the first position as the least corrupt nations while Somalia was rated as the most corrupt country in the list.

India Ranked 143 in the 2017 Index of Economic Freedom

India has been ranked 143 out of 186 economies in the annual Index of Economic Freedom 2017 released by top US based Think Tank, The Heritage Foundation. The Index measures the degree of economic freedom in the countries of the world. Hong Kong, Singapore and New Zealand are the top three nations in the Index respectively.

India Ranks 60th in Inclusive Development Index 2017

India has been ranked at 60th position among 79 developing economies with a score of only 3.38 in the Inclusive Development Index (IDI) of the World Economic Forum (WEF). WEF released its Inclusive Growth and Development Report 2017, on January 16, 2017 in Davos, Switzerland. The list has been topped by Lithuania among the 79 developing countries.

RANKS & REPORTS

India recorded highest domestic air passenger growth in 2016

Emerging as a stand-out performer, India witnessed the highest growth of 23.3 per cent in domestic air travel demand worldwide in 2016 twice that of neighboring China, according to International Air Transport Association (IATA).

India ranked 78th in global 'Passport Index'

Indian passport has been ranked a lowly 78 in a global ranking of the world's most powerful passports which was topped by Germany. Germany stands at the top with a visa-free score of 157, while Singapore overtakes South Korea and becomes the highest ranked Asian passport with a visa-free score of 156.

India slips to 92nd rank on global talent competitiveness Index

India has slipped 3 places to 92nd rank on the global index of talent competitiveness that measures how countries grow, attract and retain talent, a list topped by Switzerland.

Bengaluru Ranked Most Dynamic City in the World in WEF Report

India's IT Hub, Bengaluru has been ranked at the top position in the 2017 City Momentum Index released at the World Economic Forum Annual Meeting being held in Davos.

India ranks sixth on eight great powers in 2017: American foreign policy magazine

India is ranked at the sixth spot, behind China and Japan, in a list of eight great powers for the year 2017 by a leading American foreign policy magazine which is topped by the US. The list is

SCIENCE AND TECHNOLOGY

ISRO successfully tests its indigenously developed Cryogenic Upper Stage engine

Indian Space Research Organisation (ISRO) has successfully ground tested its indigenously developed Cryogenic Upper Stage engine for GSLV Mark III at its Liquid Propulsion Complex at Mahendragiri in Tirunelveli district of Tamil Nadu. The C25 stage is the most powerful upper stage developed by ISRO and uses Liquid Oxygen and Liquid Hydrogen propellant combination.

Atomic clocks of Satellite IRNSS-1A Develops Technical Snag

The atomic clocks on the first satellite IRNSS-1A of the NAVIC, an indigenously built satellite system has developed technical complications. The Indian Space Research Organisation (ISRO) Chairman, A.S. Kiran Kumar informed that one of the three crucial rubidium clock on IRNSS-1A spacecraft failed six months ago while the other two failed subsequently.

ISRO successfully ground-tests Cryogenic Upper Stage engine meant for rocket GSLV-Mark-III

Indian Space Research Organisation (ISRO) has successfully ground tested the Cryogenic Upper Stage engine meant for the rocket GSLV-Mark-III. In a release, the space agency stated the indigenously developed engine, designated as C25, tested for a duration of 50 seconds in its Propulsion Complex at

Mahendragiri in southern Tamil Nadu, demonstrating all the stage operations.

NASA Set to Explore Iron-Rich Asteroid 16 Psyche

National Aeronautics and Space Administration (NASA) has given its approval to explore an iron-rich asteroid 16 Psyche as a part of its mission to learn more about the history and composition of the celestial body.

INTERNATIONAL NEWS

UNICEF launches 3.3 bln USD to aid millions of children

UN children's agency UNICEF has launched an appeal for 3.3 billion US Dollar to help 48 million children caught up in crises worldwide amid fears of a funding cut from top donor the United States. This year's appeal represents 18 per cent increase from the initial request for funding in 2016.

China Commissions its 31st Stealth Warship

In a move to rapidly expand its naval fleet, China's People's Liberation Army Navy commissioned its 31st stealth warship with the commissioning of the 31st Type—056 class corvette warship, CNS Ezhou, China.

UNICEF Makes \$110 Million Appeal for Sudan Children

United Nations Children's Fund (UNICEF) has launched a \$110 million appeal to help two million acutely malnourished children across Sudan including hundreds of thousands living in conflict areas.

IMF Launches South Asia Training and Technical Assistance Center in New Delhi

International Monetary Fund (IMF) launched its first fully integrated capacity development centre, South Asia Training and Technical Assistance Center (SARTTAC) in New Delhi. SARTTAC will help to assist the local member countries of South Asia including Bangladesh, Bhutan, India, Maldives, Nepal, and Sri Lanka.

Longest elevated cycle path in the world opens in China

The world's longest elevated cycle path has been opened in Xiamen, China which can handle about 2,023 cyclists with a speed limit of 15 miles per hour. The architecture firm responsible is Copenhagen-based firm Dissing + Weitling, known for the creation of the Danish Bicycle Snake cycle route.

4th BIMSTEC Summit to be Held in Nepal in 2017

The 17th session of the senior officials' meeting of the BIMSTEC in Kathmandu. Prime Minister of Nepal, Pushpa Kamal Dahal informed during the 17th BIMSTEC-SOM meeting in Kathmandu that the 4th BIMSTEC Summit would be hosted by Nepal in 2017. BIMSTEC was founded in 1997 to bring together Nepal, Bangladesh, India, Myanmar, Thailand and Sri Lanka.

China releases theme for BRICS Summit 2017

2017 BRICS association of Brazil, Russia, India, China and South Africa to be held in Xiamen, China in September 2017. The summit will be held under the theme "BRICS: Stronger Partnership for a Brighter Future," state-run Xinhua news agency reported.

India Proposes Global Services Accord Pact to WTO Chief Azevedo

India presented the proposed Trade Facilitation in Services (TFS) Agreement to the World Trade Organisation (WTO) Director General Roberto Azevedo and India Inc. in an event organized by Confederation of Indian Industry in New Delhi.

China becomes world's largest producer of solar power

China has surpassed Germany to become the world's largest producer of solar energy after nearly doubling its installed photovoltaic capacity in 2016. With the increased capacity, China generated 66.2 billion kilowatt-hours of energy last year, which however accounted for only 1% of its electrical output. The country further plans to double its current solar energy capacity by 2020.

Israel passes law legalising 4000 homes in occupied West Bank

Israel's Parliament (Knesset) has passed a law retroactively legalising about 4,000 homes built in Area C of the occupied West Bank. The new law states that the original Palestinian landowners will be compensated with money or alternative land.

Education Secretary nominee Betsy DeVos wins Senate confirmation vote

In United States, Senate has confirmed President Donald Trump's controversial nominee for Education Secretary, Betsy DeVos by the slenderest possible margin.

Queen Elizabeth II marks Sapphire Jubilee

Queen Elizabeth II, the world's longest reigning sovereign, became the first British monarch to reach her Sapphire Jubilee, with 65 years on the throne.

Ireland became the world's first country to stop investing in fossil fuels

Ireland has become the first country in the world to divest coal, oil and gas investments from Ireland Strategic Investment Fund.

US House of Representatives Introduces H-1B Visa Reform Bill

The US House of Representatives has introduced a legislation by making it mandatory to raise the minimum salary of the H-1B visa holders to more than double at USD 1,30,000 from the previous USD 60,000. If the legislation is passed, it would highly impact American companies as they may face difficulty in replacing the American employees with foreign workers including IT professionals from India.

Trump Bans 7 nations from Entering US on Security Issues

American President Donald Trump has signed an executive order to temporarily ban visas for refugees belonging to seven Muslim-majority countries namely as Trump Bans 7 nations from Entering US on Security Issues Iraq, Iran, Libya, Somalia, Sudan, Syria, and Yemen. The decision aims at protecting United States from the entry of foreign terrorists to keep the nation safe.

Inheritance Court for Non-Muslims to be Set up in Abu Dhabi

The Deputy Prime Minister and Minister of Presidential Affairs and Chairman of Abu Dhabi Judicial Department, Sheikh Mansour bin Zayed Al Nahyan, has issued a resolution to set up a Personal Status and Inheritance Court for non-Muslims in Abu Dhabi.

Denmark to appoint world's first 'digital ambassador'

Denmark has announced it will appoint a 'digital ambassador' to manage its relationship with technology giants like Google and Apple, becoming the first country to do so.

Surya Namaskar Yajna Recognised in US Congress

The annual "Surya Namaskar Yajna" or "Health for Humanity Yogathon" has been recognized in the US House of Representative on the occasion of its 10th anniversary. Hindu Swayamsevak Sangh has organized the "Yoga for Health, Health for Humanity Yogathon" to mark Makar Sankranti.

No More Visa-Free Facility for Indians in Hong Kong

Hong Kong has withdrawn the visa-on arrival facility for Indians travelling to Hong Kong effective from January 23, 2017. From now, the Indian nationals must apply for and successfully complete pre-arrival registration online before they can visit or transit the HKSAR visa-free.

US President Trump orders 2,000-mile wall to be built on Mexico border

US President Donald Trump has signed directives to build a wall along the US border with Mexico and crack down on US cities that shield illegal immigrants, proceeding quickly on sweeping and divisive plans to curb immigration and boost national security.

Nepal Launches 10-year-plan to Reduce Depending on India for Vegetable Imports

In a move to decrease dependence on vegetable imports from India, the Nepal Government has launched a 10-year plan to boost domestic production. The 10-year scheme aims to adopt modern farm techniques to boost vegetable productivity in the country and make the country self-reliant in food.

WEF, UCSB partner to protect world's \$2.5 trillion ocean economy

World Economic Forum and the UCSB's Marine Science Institute have announced a partnership to improve the health of world's

oceans and maritime resources. The new partnership aims to protect world's USD 2.5 trillion ocean economy.

Burj Khalifa lights up in 'Tricolour' to mark 68th Indian Republic Day

Burj Khalifa tower, the world's tallest building located in Dubai, has lit up in the colours of the Indian National flag on 25th January 2017 and 26th January 2017 to celebrate India's 68th Republic Day.

China Develops World's Biggest Solar Park

In an effort to become the super powerful occupier of green energy, China has built the world's biggest solar park, Longyangxia Dam Solar Park, in the western province of Qinghai.

Pakistan Navy Receives Two Ships from China to Ensure Security along Gwadar Port

China has sold two naval ships to Pakistan to protect the strategic Gwadar port and trade routes under the USD 46 billion China-Pakistan Economic Corridor. The ships named Hingol and Basol gets its name from nearby rivers in Pakistan.

SUMMITS, FESTIVALS & Other Events

South Asian Speaker's summit held at Indore in Madhya Pradesh

Lok Sabha Speaker Sumitra Mahajan inaugurated the two-day South Asian Speaker's summit at Indore in Madhya Pradesh. Speakers of six countries deliberated on ways to achieve sustainable development goals.

Representatives from Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal and Sri Lanka are attending the summit.

Shri Radha Mohan Singh Inaugurated 2017 Indian Seed Congress in Kolkata

The Union Minister of Agriculture and Farmers Welfare, Shri Radha Mohan Singh inaugurated the Indian Seed Congress 2017 in Kolkata. The theme of Seed Congress is 'Seed of Joy'.

2017 World Economic Forum (WEF) annual meeting Held in Davos, Switzerland

The World Economic Forum Annual Meeting 2017 was held in Davos-Klosters, Switzerland. The theme of 47th World Economic Forum Annual Meeting 2017 is Responsive and Responsible Leadership. The inaugural had musical concert by violinist Anne-Sophie Mutter.

SAARC programming committee meeting begins in Kathmandu

The programming committee meeting of South Asian Association for Regional Cooperation (SAARC) held at Kathmandu, Nepal. Senior officials of all eight member countries are participating in the meeting. Indian delegation is lead by Shri

Prashant Agarwal, Joint Secretary (SAARC).

5-day Indian Panorama Film Festival organised in Port Blair

The five-day 'Indian Panorama Film Festival' being organised by the Directorate of Information and Publicity, Andaman & Nicobar Administration, in association with the Ministry of Information & Broadcasting and Directorate of Film Festivals/IFFI, New Delhi, Govt. of India got underway in Port Blair.

2-day Global Investor Summit 'Momentum Jharkhand' held in Ranchi

A two-day mega event of Global Investor Summit, branded as "Momentum Jharkhand" is kicked off at Khelgaon of Ranchi, Jharkhand.

International Coin Fair held in Thiruvananthapuram

The International Coin Fair inaugurated at Kanakakunnu Palace in Thiruvananthapuram, Kerala by the Kerala state Minister for Tourism, Cooperation and Devaswoms Kadakampally Surendran.

MEA & Gateway House Co-Hosts 2nd Gateway of India Geo-Economic Dialogue

Ministry of External Affairs and Gateway House co-hosted the Second Gateway of India Geo-Economic Dialogue in Mumbai. The theme of the conference is 'Where Geopolitics meets Business'.

11th International Aero India 2017 held

The 11th International Aerospace and Defence Exhibition - Aero India 2017 held at the Air Force Station, Yelahanka in Bengaluru, Karnataka. The event is being organized by Defence Exhibition Organisation (DEO).

Second edition of International Spice Conference held at Thiruvananthapuram

The second edition of the International Spice Conference held at Kovalam in Thiruvananthapuram district of Kerala. The conference hosted by All India Spices Exporters Forum (AISEF) in association with the Cochin Chamber of Commerce and Industry. The theme of the conference is "21st Century Spic Industry- Disrupt or be Disrupted".

National Women's Parliament held in Andhra Pradesh

The three-day National Women's Parliament, being organised by Andhra Pradesh Legislative Assembly with the theme of 'Empowering Women — Strengthening Democracy', held in the state capital region Amaravati. The vision of NWP is to enable and encourage social, political and economic empowerment of women in all strata of the society.

National productivity week observed

Every year 12th to 18th of February is celebrated as the National Productivity Week. This year the theme of week is 'From Waste

to Profits-through Reduce, Recycle and Reuse.'

International Conference & Exhibition on Terrestrial & Satellite Broadcasting held in New Delhi

The 23rd edition of International Conference and Exhibition on Terrestrial & Satellite Broadcasting was held in New Delhi. The theme of the conference is 'Hybrid Technologies in Broadcasting New Opportunities'.

3-day global conference on Nuclear Terrorism held in New Delhi

The Implementation and Assessment Group Meeting of the Global Initiative to Combat Nuclear Terrorism begins in New Delhi. The meeting highlights India's commitment to global nuclear non-proliferation and peaceful uses of nuclear energy.

Sula Fest held

The tenth edition of Sula Fest held at the Sula Vineyards in Nashik, Maharashtra.

First Edition of the North-East Investors Summit Held in Shillong

The first edition of the North-East Investors Summit was inaugurated by the Union Textiles Minister, Smt. Smriti Zubin Irani in Shillong, Meghalaya.

PM Narendra Modi inaugurated second Raisina Dialogue in New Delhi

Prime Minister Shri Narendra Modi has inaugurated the second edition of Raisina Dialogue in New Delhi. The conference has been organized by the Ministry of External Affairs and Delhi based prestigious think tank Observer Research Foundation. The theme was The New Normal: Multilateralism in a multipolar world.

COMMITTEES | BOOKS & AUTHORS

Andhra Pradesh Government constitutes 33-member committee for Sagarmala Project

A 33-member committee has been constituted under the chairmanship of Andhra Pradesh's Chief Minister N Chandrababu Naidu for the speedy implementation of the Sagarmala Project in Andhra Pradesh. Sagarmala project aims to improve the state's coastline and inland waterways.

Task force set up to check tax evasion by deviant shell firms

In the latest move to curb tax evasion, the government has set up a task force to monitor actions of deviant shell companies. The setting up of the task force, under the co-chairmanship of revenue secretary Hasmukh Adhia and corporate affairs secretary Tapan Ray.

Govt forms panel to improve Haj policy, look into subsidy issue

The Centre has formed a six-member committee to give a report

on ways to improve India's Haj policy and also look into the issue of subsidy to the pilgrimage in light of 2012 Supreme Court order on gradually reducing and abolishing it by 2022. Former Consulate General of India (CGI), Jeddah, Afzal Amanullah has been appointed as convener of the high-level panel.

Sports Ministry reconstitutes committee to identify athletes under TOP Scheme

The Union Ministry of Youth Affairs and Sports has reconstituted TOP committee with objective of identifying and supporting potential medal prospects for 2020 and 2024 Olympic Games under Target Olympic Podium (TOP) scheme. The committee will be headed by Abhinav Bindra, Olympic Gold Medalist.

Special Task Force for women safety reconstituted

A special task force (STF) for women safety has been reconstituted under the Chairmanship of Lieutenant Governor (L-G) Anil Bajjal with his approval, the Delhi government's Home Department said in a communication sent to the Delhi High Court.

Timothy Gonsalves Committee Suggests 20% Reservation seats for Girl Students in IITs

A committee formed by the IIT Joint Admission Board (JAB) has recently given its suggestion to create 20% reservation seats for the girl students in IITs out of the total number of seats available. The committee headed by professor Timothy Gonsalves recommended the supernumerary seats to address the issue falling the number of female students entering the institute.

BOOKS & AUTHORS

Khullam Khulla: Rishi Kapoor Uncensored authored by Rishi Kapoor and Meena Iyer

Author Salman Rushdie's new novel titled 'The Golden House' Veerappan, Chasing the Brigand: K Vijay Kumar

Hema Malini: Beyond the Dream Girl: Ram Kamal Mukherjee

IMPORTANT DAYS

World Wetlands Day was observed globally on **2 February** with the theme 'Wetlands for Disaster Risk Reduction'.

International Day of Zero Tolerance for Female Genital Mutilation was observed on **6 February** with the theme "Building a solid and interactive bridge between Africa and the world to accelerate ending FGM by 2030."

Safer Internet Day was celebrated on **7 February** with the theme - Be the Change: Unite for a Better Internet.

National Deworming Day was observed on **10 February** in India with an aim to tackle worm infections in children.

International Day of Women and Girls in Science was observed on **11 February**.

AIDS Healthcare Foundation (AHF) celebrated its annual International Condoms Day on 13 February 2017 in a unique style to raise awareness about HIV and other sexually transmitted diseases (STDs). The event themed 'Always in Fashion'.

Prime Minister Narendra Modi extended his greetings on the World Radio Day on 13 February 2017. Terming radio as "a wonderful way to interact, learn & communicate", the PM stated. The theme for the 2017 edition of World Radio Day is 'Radio is You'.

A truly global event taking place every year on **04th February** World Cancer Day unites the world's population in the fight against cancer. It took place under the tagline 'We can. I can'.

29th January 2017 is observed as the National Immunization Day. President Pranab Mukherjee has launched the countrywide programme for 2017 by administering polio drops to children aged below five years at a function in Rashtrapati Bhavan.

The Election Commission of India celebrated the 7th National Voters' Day across the country on **25 January 2017** for enhanced participation of citizens in the electoral process.

National Girl Child Day celebrated on **24th January** at a special function in New Delhi in view of exemplary achievements by nation's daughters during last year.

Nation pays homage to Netaji Subhash Chandra Bose on his 120th birth anniversary on **23 January 2017**.

SPORTS NEWS

Vijay Goel lays foundation stone

The Union Minister for Sports Vijay Goel laid the foundation stone of the country's first centre of excellence for differently abled sportsmen at Gandhinagar, Gujarat. The centre is proposed with an estimate of 50 crores rupees.

Sandeep Singh Indian International Hockey Player Receives Honorary Doctorate

Indian professional hockey player Sandeep Singh has been honored with an Honorary Doctorate Degree by Desh Bhagat University, a private educational institution in Amloh, Fatehgarh Sahib District of Punjab. He is the second Indian hockey player to receive this award.

Mumbai Boy Kush Bhagat Awarded CM Title by World Chess Federation

Mumbai based Kush Bhagat has been awarded the Candidate Master (CM) title by the World Chess Federation body, FIDE for his outstanding performance in Western Asian Youth Chess championship 2016 at UAE.

Jehan Daruvala wins New Zealand GP, finishes fifth in Toyota series

Jehan Daruvala became the first ever Indian to claim the New Zealand Grand Prix at the Chris Amon Circuit in Manfeild, New

Zealand. With this win, Jehan, was placed in fifth position & Australia's Thomas Randle became the first Australian to win the Toyota Racing Series.

Dutch Women Germaine De Randamie crowned first UFC Women's Featherweight Champion

Netherlands native Germaine de Randamie defeated Holly Holm by (7-3) to claim the UFC Women's Featherweight Championship at the UFC 208 in Brooklyn, New York.

Maiden ITTF World Tour event in India to begin

The first ever ITTF World Tour event in India will begin at the Thyagaraj Sports Complex in New Delhi. The 1.5 lakh US dollar India Open also happens to be the biggest ever ITTF event in terms of prize money.

Ravichandran Ashwin Becomes Fastest Bowler to Claim 250 Wickets

Indian off-spin specialist Ravichandran Ashwin became the fastest cricketer to take 250 wickets in Test matches. He achieved this feat in his 45th test match.

India beat Pakistan by 9 wickets to win T20 Blind World Cup 2017

India beat Pakistan by 9-wickets to win T20 Blind World Cup at Bengaluru's M Chinnaswamy Stadium. Man-of-the-match was Prakash Jayaramaiah. Man-of-the-series Badar Munir was the top-scorer for Pakistan.

Sports Ministry Launches Mission XI Million in New Delhi

Minister of State for Youth Affairs and Sports Shri Vijay Goyal launched the Mission XI Million, the biggest school sport outreach programme in New Delhi in the presence of President of AIFF Shri Praful Patel. The programme has been launched with an aim to make football a sport of choice in India and encourage children to play the football games on regular basis.

IAAF Bans Russia from 2017 London World Athletics Championships

Russia will miss August's World Athletics Championships in London (UK) after their doping ban was extended, the world governing body president Sebastien Coe said.

Hyderabad Test: Cheteshwar Pujara breaks 52-year-old record

India's top-order batsman Cheteshwar Pujara added another feather to his cap on the first day of the Hyderabad Test at Rajiv Gandhi International Stadium against Bangladesh. He surpassed the 52-year long-standing record of former Indian cricketer Chandu Borde of highest first-class runs in a single cricketing season.

Kohli record for most Test 150s by an Indian captain

Virat Kohli recorded his sixth Test 150, against Bangladesh at Hyderabad, to set the record for most 150-plus scores by an Indian captain in Tests. Kohli went past Sunil Gavaskar and Mohammad Azharuddin, who both have five 150-plus Test scores each as captain.

National Badminton Championship: Sourabh Verma clinches Men's Singles title

Sourabh Verma clinched the Men's Singles title defeating Lakshya Sen in the 81st Senior National Badminton Championships tournament played in Patna. Sourabh beat Lakshya Sen 21-13, 21-12. Rituparna Das claimed the Women's Singles title defeating Reshma Karthik in the tournament.

Iran Lifts Ban on American Wrestling Team

Iran lifted up the ban it had imposed on United States Wrestlers, thus allowing them to participate in the Freestyle World Cup to be held in Iran in February 2017.

India to host World Billiards Championship for next four years

The Billiards and Snooker Federation of India (BSFI) informed that India will host the World Billiards Championship for the next four years.

Alastair Cook resigns as England Test captain

Alastair Cook has resigned as England Test captain after a record 59 matches in the role. Cook tendered his resignation to England and Wales Cricket Board (ECB) chairman Colin Graves.

India to host FIBA Women's Asia Cup basketball tournament

India to host FIBA Women's Asia Cup basketball tournament at Bengaluru in July, 2017. Basketball Federation of India (BFI) President K Govindaraj stated the continental flagship tournament for women will be held from July 23 to 29, 2017.

Pankaj Advani pockets the National Snooker Championship title

Champion cueist Pankaj Advani has won the Indian National Snooker Championship with a 6-0 win over Pandurangaiah of Railways.

Sports Ministry budget hiked by Rs 350 crore

The Sports Ministry budget got a substantial hike of Rs 350 crore in the union budget for 2017-18, presented by Finance Minister Arun Jaitley in the Parliament. Jaitley allocated a total of Rs 1943 crore, compared to Rs. 1592 crore earmarked last year.

Lakshya Sen becomes World No.1 Junior Badminton player

India's Lakshya Sen has become the World No 1 Junior Badminton player. He achieved the distinction in the latest rankings of the Badminton World Federation (BWF).

PV Sindhu wins Syed Modi International badminton tournament

Indian shuttler PV Sindhu won the Syed Modi International Grand Prix Gold after beating Indonesia's Gregoria Mariska. Rio Olympics silver medalist eased past her opponent in straight sets.

Sumo wrestler becomes first Japanese athlete to receive highest honour in 19 years

Japan based sumo wrestler Kisenosato was promoted to the highest rank of the wrestling, Yokozuna after winning his first title at the New Year Grand Sumo Japan Wrestler Tournament with a 14-1 record.

Kremlin to host 2018 FIFA World Cup finals

The draw for the 2018 FIFA World Cup finals hosted by Russia will take place in the Kremlin the country's Football Union (RFU) chief Vitaly Mutko stated. Mutko, Russia's deputy prime minister, stated FIFA had approved the plan, which world football's ruling body later confirmed.

Retired Watson bags Australia's T20 International player of the Year award

Retired all-rounder Shane Watson has been adjudged Cricket Australia's T20 International Player of the Year. He had announced his retirement from international cricket in March last year.

Matthew Hayden and David Boon inducted into Australian Cricket Hall of Fame

Former Australian cricketers Matthew Hayden and David Boon have been inducted into the Australian Cricket Hall of Fame. Betty Wilson, an icon of women's cricket, who was known as the 'female Bradman' during her career in the 1940s and 1950s, was also added to the Hall of Fame.

Virat Becomes Fastest Batsman to Score 1000 Runs as ODI Captain

Virat Kohli became the fastest batsman in the world to score 1,000 runs as captain in One-Day Internationals (ODIs) in the third ODI against England at the Eden Gardens.

Sunish wins ITF Juniors title

Dhruv Sunish finally got the taste of ITF Juniors Tennis title when he won the boys singles crown downing Kazakhstan's Dostanbek Tashbulatov at the Dakshin Kalikata Sansad clay courts.

Saina Nehwal wins Malaysian Masters Grand Prix Gold tournament

India's ace shuttler Saina Nehwal has won the Malaysia Masters Grand Prix Gold title at Sarawak in Malaysia. Saina, the top seed in the tournament, defeated Pornpawee Chochuwong of Thailand in straight games 22-20, 22-20.

Tajikistan's Amonatov Wins Delhi International Chess Tournament

Farrukh Amonatov of Tajikistan has won the 15th edition of the Delhi International Chess tournament after settling for a draw with Grandmaster Diptayan Ghosh in the 10th and final round.

Valtteri Bottas replaces Nico Rosberg at Mercedes and joins Lewis Hamilton

Valtteri Bottas has been confirmed as Lewis Hamilton's new team-mate for the forthcoming Formula One season after he was finally unveiled by Mercedes at their headquarters.

SCHEMES/APPS/PROGRAMME LAUNCHED

UDAN scheme to increase number of airports by 50

The implementation of the regional air-connectivity scheme, UDAN, will see the number of operational airports in the country shoot up by over 50, while the cost of travelling will come down to as low as ₹2,500 for up to an hour of air journey, said Jayant Sinha, Minister of State for Civil Aviation. According to Sinha, there are 75 small operational airports in the country, and this number will increase to over 125 with the successful implementation of UDAN (Ude Desh ka Aam Nagrik) the new scheme through which the government hopes to make flying viable to Tier II and III cities.

National Career Services (NCS) and Jeevan Praman Facility for EPFO Pensioners Launched

The Union Minister of State for Labour and Employment Bandaru Dattatreya launched the National Career Service (NCS) for youths and Jeevan Praman facility to EPFO pensioners through Post Offices at Dak Sadan in Hyderabad.

Sports Ministry Launches Mission XI Million in New Delhi

The Minister of State for Youth Affairs and Sports Shri Vijay Goyal launched the Mission XI Million, the biggest school sport outreach programme in New Delhi in the presence of President of AIFF Shri Praful Patel. The programme has been launched with an aim to make football a sport of choice in India and encourage children to play the football games on regular basis.

Piyush Goyal Launches TAMRA Portal and Mobile Application

Union Minister of State for Power, Coal, New & Renewable Energy and Mines, Shri Piyush Goyal launched the TAMRA (Transparency, Auction Monitoring and Resource Augmentation) portal and Mobile Application in New Delhi. TAMRA Portal and Mobile Application aims to enhance the transparency & Piyush Goyal accountability in the mining sector as a part of the Ease of Doing Business.

Ananth Kumar Inaugurates Orientation Programme for Launching of 1000 PMBJKs

Union Minister of Chemicals & Fertilizers and Parliamentary Affairs, Shri Ananthkumar inaugurated the Orientation Programme for the district heads of National Yuva Cooperative Society (NYCS) in New Delhi to launch the Pradhan Mantri Bhartiya Janaushadhi Kendras (PMBJKs) in the country.

Cabinet approves 'PM Gramin Digital Saksharta Abhiyan' for digital education

The Cabinet has approved Pradhan Mantri Gramin Digital Saksharta Abhiyan to make 6 crore rural households digitally literate by March 2019. The outlay for this project is over two thousand 351 crore rupees to usher in digital literacy in rural India.

Sarbananda Sonowal launches CMSGUY in Guwahati

In a move to bring about paradigm shift towards holistic development of villages, Assam Chief Minister Sarbananda Sonowal launched the Chief Minister Samagra Gramya Unnayan Yojana, CMSGUY in Guwahati. This scheme is a mega mission with a financial outlay of 30,000 crore rupees and it will be implemented in all the villages of the state. It will culminate in 2021-22.

Health Ministry launches Measles Rubella vaccination campaign

Health Ministry launched Measles Rubella vaccination campaign in the country at a function in Bengaluru. The campaign against these two diseases (Measles and Rubella) will start from Karnataka, Tamil Nadu, Puducherry, Goa and Lakshadweep, covering nearly 3.6 crore children.

Arunachal launches 'Dulari Kanya' scheme to check infant mortality

Arunachal Pradesh has launched 'Dulari Kanya', a special scheme to check infant mortality in the state. Governor V Shanmuganathan launched the scheme, under which the government will deposit Rs 20,000 in the bank account of a girl child, born in any government hospital.

Kerala CM Inaugurates e-Health Kerala scheme at Peroorkada Hospital

The Chief Minister of Kerala, Pinarayi Vijayan launched the IT Project, e-Health Kerala which is named Jeevan Rekha at Peroorkada Model Government Hospital. The project has been developed by the Health Department in association with the state IT Mission.

Assam launches 'Chief Minister's Award' to reward districts adopting digital payments

In a bid to promote digital transaction in Assam, the Chief Minister of Assam, Sarbananda Sonowal announced the launch

of 'Chief Minister's Award' while inaugurating the Digi Dhan Mela in the state.

Rubber Soil Information System (RubSIS) launched by the Ministry of Commerce & Industry for Rubber Growers

The Minister of Commerce & Industry, Smt Nirmala Sitharaman has launched Rubber Soil Information System (RubSIS) in New Delhi to provide the detail RubSIS about the soil quality to the rubber growers to enhance productivity besides reducing the cost of production. RubSIS is an online platform developed to recommend application of appropriate mix of fertilizers to the specific plantations of rubber growers depending upon their soil nature.

Bihar: Govt. launched Nasha Mukta campaign to make state addiction-free

Bihar government has launched a Nasha Mukta campaign to make the state addiction-free. Over two crore people are likely to participate in human chains formed across the state on the occasion.

Government Launches Web-Portal 'ShaGun' for Monitoring Sarva Shiksha Abhiyan

The Union Human Resource Development Minister Prakash Javadekar has launched a dedicated web portal 'ShaGun' for continuous monitoring of the elementary education scheme Sarva Shiksha Abhiyan (SSA) and promote the development of education sector of India. The portal has been developed by World Bank in collaboration with Ministry of Human Resource Development.

Suresh Prabhu unveils Mission 41k energy plan for Railways

Indian railways Minister Suresh Prabhu unveiled Mission 41k energy, plan that would save Rs. 41,000 crore over 10 years through an integrated energy management system. In this initiative, railways will electrify 24,000 km of rail tracks over the next five years by doubling the annual rate of electrification from 2,000 km to 4,000 km in the next two years.

Govt inks MoU to set up 1,000 Janaushadhi Kendras

The government has signed an agreement with the National Yuva Cooperative Society to set up 1,000 Janaushadhi Kendras across the country and targets to open such medical stores in every block and gram panchayat to provide quality medicines at an affordable price.

Anandam Scheme Launched in Madhya Pradesh to Help Poor

Madhya Pradesh government led by Shivraj Singh Chouhan has launched Anandam program of the newly-formed Anand Department. Anandam scheme will help the poor people to get the daily needs like jackets, sarees, blankets, utensils, school bags from the wealthy people.

BSF launches operation 'Sard Hawa' at Rajasthan border

Border Security Force (BSF) has launched operation 'Sard Hawa' at the western international border of Rajasthan, under which vigil will be beefed-up to check the instances of infiltration due to the dense fog in the area.

Digital Dakiya scheme inaugurated in MP to encourage cashless transactions

In Madhya Pradesh, Indore district witnessed inauguration of first of its kind scheme of the country. Digital Dakiya, which aims at encouraging cashless transactions. "Digital Dakiya or Digital Postman will visit different places to teach and encourage people about cashless transactions and its benefits.

MISCELLANEOUS

E-Paathsala Launches Unique Technology-Backed Services

Bangalore based Start-up firm E-paathsala has launched an integrated accreditation and ERP technology solution for the colleges and universities to enable them better manage their multiple accreditation standards in an easy, efficient and fast manner and bridge the gap identified for specific accreditations.

UNESCOs Nature Fest held in Himachal Pradesh

France based UNESCO organised the two-day Nature Fest at the World Heritage Site Great Himalayan National Park (GNHP) at Sairopa in Kullu district in the state of Himachal Pradesh.

Indian holds record for longest cycle journey in a country

Prasad Erande from Pune travelled 14,576 kilometres on a cycle across India, establishing a Guinness World Record for the 'longest journey by bicycle in a single country'.

Sudarsan Pattnaik creates Guinness World Record by creating 48.8 feet tall sand castle

Sand artist Sudarsan Pattnaik has created a Guinness World Record by creating a 48.8 feet tall sand castle at Puri beach in Odisha. The record-breaking sculpture was built with a message of world peace, and featured sculptures of Mahatma Gandhi, Gautama Buddha and Nelson Mandela.

World's longest flight lands in New Zealand

The world's longest commercial flight landed in New Zealand on 6 February 2017 with the arrival of Qatar Airways's 14,535km (9,032-mile) Doha-Auckland service. The long-range Boeing 777-200LR crossed 10 time zones on its marathon flight.

Sachin Tendulkar adopts another village for transformation

After transforming the lives of villagers in Puttamraju Kandriga in Andhra Pradesh, Indian cricket icon and Rajya Sabha MP Sachin

Tendulkar is now set to adopt Donja in Osmanabad (Maharashtra) under the Sansad Adarsh Gram Yojna.

Railways Approves Rail Project in Andaman and Nicobar

The Railway Ministry is set to develop the first ever railway line in Andaman and Nicobar Island that currently has no rail network. The Ministry of Railway is set to approve the project that will construct 240-km broad gauge railway line connecting Port Blair with Diglipur, the largest town on Andaman Island.

Rail Museum celebrated 40th anniversary

National Rail Museum in New Delhi celebrated its 40th anniversary on 01st February 2017. The museum, which houses a large collection of life-size rail exhibits, allows visitors to take a tour on a toy train.

Railway Ministry Requests Separate Fund for Rashtriya Rail Safety Fund

The Ministry of Railway has proposed the Finance Ministry to create a non-lapsable safety fund named 'Rashtriya Rail Sanraksha Kosh' over five years with initial corpus of Rs. 20000 crore and contribute a portion to fund it in the Budget 2017.

Bureau of Civil Aviation Security suspends IndiGo's security training centre licence

Bureau of Civil Aviation Security, BCAS has suspended the license of budget carrier IndiGo's aviation security training facility. The regulatory authority took the decision after several lapses were detected in the examination procedure that it was following.

Delhi airport wins award for CSR

The Delhi International Airport (Private) Limited (DIAL) has won the Golden Peacock Award for Corporate Social Responsibility (CSR) in the transportation sector under the Aviation category for the year 2016.

New Universal Rail Mill Worth Rs. 1200 crore Inaugurated in Bhilai Steel Plant

Moving towards the Make in India initiative, the Steel Minister Chaudhary Birender Singh inaugurated the new Universal Rail Mill at Bhilai Steel Plant (BSP) of Steel Authority of India Ltd (SAIL) and flagged off the mills first and world's longest single rail of 130 meters from the new Universal Rail Mill (URM).

SC allows 24-week pregnant woman to have abortion

Supreme Court has given permission to a woman in her 24th week of pregnancy to undergo termination of pregnancy after medical report finds foetus is without skull.

Handy Notes Mathematics for Banking Exams : Simple Interest

Principal (P): The original sum of money that is provided on loaned/deposited. It is also known as capital.

Interest (SI): The amount of money that you pay to borrow money or the amount of money that you earn on a deposit.

Time (T): The duration for which the money is borrowed/deposited.

Rate of Interest (R): The percent of interest that you pay for money borrowed, or earn for money deposited

$$S.I. = \frac{PRT}{100}$$

Where

S.I. = Simple interest

T = Time

R = Rate percentage

Important Concept and Tricks

- S.I. on a certain sum is n times of principal find $R\%$ or T , if both are equal numerically
Given $S.I. = nP$
Or $R = T = \sqrt{(n \times 100)}$
- At what $R\%$ p.a., will a sum of money becomes n times in T years
 $R = \frac{(n-1) \times 100}{T}$
- A certain sum, becomes m times in T_1 years and n times in how many years
Required Time $= (n-1) \times T_1 / (m-1)$

Note- Generally if C.I. is not mentioned, then we assume S.I.

- If a certain sum in T_1 years becomes A_1 on S.I and in T_2 years on S.I becomes A_2 .
 $P + T_1 \text{ S.I.} = A_1 \dots (1)$
 $P + T_2 \text{ S.I.} = A_2 \dots (2)$
S.I. = annual simple interest
 $R = \frac{(A_2 - A_1) \times 100}{(T_2 - T_1) A_2}$
 $P = \frac{(A_2 T_1 - A_1 T_2)}{(T_1 - T_2)}$
Eg. A sum of money become 756 in 2 yr & 873 in 3(1/2) yr. find $R\%$ and S.I.
 $P + 2 \text{ S.I.} = 756 \dots (i)$
 $P + 3.5 \text{ S.I.} = 873 \dots (ii)$
 $R = \frac{(873 - 756) \times 100}{[3.5 \times 756 - 2 \times 873]} = 13\%$
Also find the S.I. by solving eq (i) and eq.(ii)

$$1.5 \text{ S.I.} = 117$$

$$\text{S.I.} = 78 \text{ Rs.}$$

- The annual payment that will discharge a debt of Rs. A , due in T years at $R\%$ P.A., On S.I.

$$\text{Annual Payment} = \frac{(200 A)}{[T\{200 + R(T-1)\}]}$$

Eg. What annual payment will discharge a debt of Rs. 12900, due in 4 yrs. At 5% rate

$$A.P. = (200 \times 12900) / [4(200 + 5 \times 3)] = 3000 \text{ Ans}$$

Alternative

$$100 + 105 + 110 + 115 = 12900$$

$$430 = 12900$$

$$100 = 12900 / (430) \times 100 = 3000$$

- If the Amount are same i.e. $A_1 = A_2 = A_3 = \dots = A_n$, after $T_1, T_2, T_3, \dots, T_n$ years,
The ratio of Principal
 $P_1 : P_2 : P_3 : \dots : P_n = 1 / (100 + R_1 T_1) : 1 / (100 + R_2 T_2) : \dots : 1 / (100 + R_n T_n)$
- If S.I. are same after T_1, T_2, T_3, \dots
In years the ratio
 $P_1 : P_2 : P_3 : \dots : P_n = 1 / R_1 T_1 : 1 / R_2 T_2 : 1 / R_3 T_3 : \dots : 1 / R_n T_n$

Eg. A Sum of Rs. 2600, is lent out in two parts, SI on 1st part at 10% for 5 yr is equal to S.I. on 2nd part at 9% rate for 6 yr. find the ratio of parts.

Solution

$$\text{Given } SI_1 = SI_2$$

$$P_1 : P_2 = 1 / R_1 T_1 : 1 / R_2 T_2$$

$$= 1 / (10 \times 5) : 1 / (9 \times 6)$$

$$27 : 25$$

PRACTICE EXERCISE

- Mr. James deposited a total amount of Rs. 65000 in three different schemes A, B and C with rates of interest 12% per annum, 16% per annum and 18% per annum, respectively and earned a total interest of Rs. 10,180 in one year. If the amount invested in Scheme A was 72% of the amount invested in Scheme C, then what was the amount invested in Scheme B?
(a) Rs. 25000 (b) Rs. 22000 (c) Rs. 18000
(d) Cannot be determined (e) None of these
- A Business Man invests Rs. 1,200 at 10% p.a. At the end of the year he withdraws 30% of total amount and pays Rs. 24 as transaction fee. At the end of 2nd year he withdraws 30% of the amount and pays Rs. 93 as transaction fee. What is the balance at the end of the third year?

- (a) Rs. 660 (b) Rs. 825 (c) Rs. 500
 (d) Rs. 770 (e) None of these
3. Some amount was lent at 6% per annum simple interest. After 1 year, Rs. 6,800 is repaid and the rest of the amount is repaid at 5% per annum. If the second year's interest is $\frac{11}{20}$ of the first year's interest, find what amount of money was lent out.
 (a) Rs. 17,000 (b) Rs. 16,800 (c) Rs. 16,500
 (d) Rs. 17,500 (e) None of these
4. Ahinmanu invested $\frac{1}{3}$ of his capital at 7%, $\frac{1}{4}$ at 8% and the remainder at 10%. If his annual income is Rs. 561, the capital is
 (a) 5400 (b) 6000 (c) 6600
 (d) 7200 (e) None of these
5. Each of the two equal sum of money is invested at 6% and 4% per annum simple interest. Second principal is invested for two more years as compared to first principal and thus amount received on each of the principal is Rs. 18600. What sum of total money put on lend?
 (a) Rs. 12000 (b) Rs. 24000 (c) Rs. 15000
 (d) Rs. 30000 (e) None of these

SOLUTION

1. (b); Suppose Amount invested in scheme A = Rs. x
 Amount invested in scheme B = Rs. y
 Amount invested in scheme C = Rs. z
 $\therefore x + y + z = 65000$ (1)
 $x = 72\% \text{ of } z = \frac{18}{25}z$ (2)
 $12x + 16y + 18z = 1018000$
 i.e., $6x + 8y + 9z = 509000$ (3)
 Using (2) in (1) and (3), we get
 $\frac{43}{25}z + y = 65000$ (4)
 $\frac{108}{25}z + 8y + 9z = 509000$
 $\Rightarrow \frac{333}{25}z + 8y = 509000$ (5)
 From (4), we have
 $\frac{344}{25}z + 8y = 520000$ (6)
 $\therefore (6) - (5)$
 $\Rightarrow \frac{11z}{25} = 11000$
 $11z = 275000$
 $z = 25000$
 $\therefore x = 18000,$
 $y = 22000.$

2. (a); The man invests Rs. 1,200 at 10% p.a.
 At the end of 1st year the amount = Rs. 1,320

Withdrawal $\frac{30}{100} \times 1320 + 24 = \text{Rs. } 420$

Amount at the end of second year
 $= 900 \times 1.1 = \text{Rs. } 990$

Withdrawal $= \frac{30}{100} \times 990 + 93 = \text{Rs. } 390$

\therefore Amount at the end of 3 years
 $= 600 \times 1.1 = \text{Rs. } 660$

3. (a); Let the amount of money lent out be Rs. P.

Then first year interest $= \frac{P \times 6}{100} = \text{Rs. } \frac{3P}{50}$

Amount to be returned $= P + \frac{3P}{50} = \text{Rs. } \frac{53P}{50}$

Amount returned = Rs. 6,800,

Balance amount $= \left(\frac{53P}{50} - 6800 \right)$

Second year interest $= \frac{\left(\frac{53P}{50} - 6800 \right) \times 5}{100}$

$= \text{Rs. } \frac{53P - 340000}{1000}$

It is given that second year interest $= \frac{11}{20} \times \frac{3P}{50}$

$\therefore \frac{33P}{1000} = \frac{53P - 340000}{1000}$

$\Rightarrow P = \frac{340000}{20} = \text{Rs. } 17,000.$

4. (c) Let the total capital be Rs. x.

$\therefore \frac{x}{3} \times \frac{7}{100} + \frac{x}{4} \times \frac{8}{100} + \left(x - \frac{x}{3} - \frac{x}{4} \right) \times \frac{10}{100} = 561$

$x = 6600$

5. (d) $P + \frac{P \times 6 \times t}{100} = p + \frac{P \times 4 \times (t+2)}{100}, 6t = 4t + 8, t = 4$

$P + \frac{P \times 6 \times 4}{100} = 18600$

$P = 15000$

So, Total money = 15,000 + 15,000 = 30,000


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Handy Notes Advance Mathematics for SSC: Surds & Indices

INDEX

$a \times a \times a \times a \times a \dots \dots \dots m$

or $(a \times a \times a \times \dots \dots \dots m) \times (a \times a \times a \times \dots \dots \dots n)$

i.e. $a \times a \times a \times \dots \dots \dots (m+n)$

Important Formula:-

If $a > 0$, $a \neq 1$, m & n are integers then

(i) $a^m \times a^n = a^{m+n}$

(ii) $a^m \times a^n \times a^q = a^{m+n+q}$

(iii) $(a^m)^n = a^{mn}$

(iv) $\frac{a^m}{a^n} = a^{m-n}$

(v) $a^0 = 1$

(vi) $a^{-m} = \frac{1}{a^m}$

(vii) $a^{mn} = (a^m)^n$

(viii) $(ab)^n = a^n b^n$

$$\sqrt{a + \sqrt{b}} = \frac{\sqrt{a + \sqrt{a^2 - b}}}{2} + \frac{\sqrt{a - \sqrt{a^2 - b}}}{2}$$

$$\sqrt{a - \sqrt{b}} = \frac{\sqrt{a + \sqrt{a^2 - b}}}{2} - \frac{\sqrt{a - \sqrt{a^2 - b}}}{2}$$

Important formula: -

(i) $a^{-p} = \frac{1}{a^p}$

(ii) if $a^y = n$ then $a = (n)^{\frac{1}{y}}$

(iii) If $a^x = b^y$ then $a = b^{\frac{y}{x}}$

(iv) $x^n = a$, $x = \sqrt[n]{a}$

(v) $\sqrt[n]{a} = a^{\frac{1}{n}}$

(vi) $(\sqrt[n]{a})^m = \sqrt[n]{a^m} = a^{\frac{m}{n}}$

(vii) $\sqrt[n]{a} \cdot \sqrt[n]{b} = \sqrt[n]{ab}$

SURD

If square root, cube root etc. of a number cannot be expressed in the rational form $(\frac{p}{q}, q \neq 0)$ then it is called surd.

Eg. $\sqrt{2}$, $\sqrt[3]{4}$, $\sqrt[4]{18}$, $\sqrt{7}$, $\sqrt[3]{9}$ etc. are surds

i.e. we can say that every number expressed in a surd is on irrational number.

Types of surds:

(i) Pure surd : $\sqrt{7}$, $\sqrt[3]{11}$, $\sqrt[4]{125}$ are pure surds

(ii) Mixed surd $2\sqrt[3]{2}$, $7\sqrt[2]{11}$, $4\sqrt{2}$ are mixed surds

(iii) Similar surds : $\sqrt{3}$, $3\sqrt{3}$ & $6\sqrt{5}$, $7\sqrt{125} = 35\sqrt{5}$

Order of surds : $\sqrt{7}$, $\sqrt[3]{4}$, $\sqrt[4]{8}$, $\sqrt[5]{125}$ are respectively surds of order 2, 3, 4 & 5

Conjugate of surds →

If a , and b are rational numbers when b is not a perfect square then conjugate of $a + \sqrt{b}$ is $a - \sqrt{b}$

Eg. Conjugate of $5 + \sqrt{7}$ is $5 - \sqrt{7}$

Condition for two surds to be equal

If a , b , c , d are all rational numbers while b & d are not perfect square then $a + \sqrt{b} = c + \sqrt{d}$

i.e. $a = c$

& $b = d$

Square root of surd of $a + \sqrt{b}$ form

PRACTICE QUESTIONS

- If $X = \frac{2\sqrt{10}}{\sqrt{2} + \sqrt{5}}$, then find value of $\frac{X + \sqrt{2}}{X - \sqrt{2}} + \frac{X + \sqrt{5}}{X - \sqrt{5}} = ?$
 - 2
 - 1
 - 3
 - 4
- If $3^{(a+8)} = 27^{(2a+1)}$, then find 'a'?
 - 1
 - 0
 - 1
 - 0.5
- If $X = \frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}}$ and $Y = \frac{\sqrt{3} - \sqrt{2}}{\sqrt{3} + \sqrt{2}}$, then find value of $\sqrt{\frac{X}{Y}} + \sqrt{\frac{Y}{X}} = ?$
 - 8
 - 12
 - 10
 - 0
- What is value of the expression $\sqrt{7\sqrt{7\sqrt{7\sqrt{7\sqrt{\dots\infty}}}}} = ?$
 - 49
 - 7
 - 1
 - 0
- If $X = 2 + \sqrt{3}$, then the value of $\sqrt{X} + \frac{1}{\sqrt{X}}$ is -
 - $\sqrt{3}$
 - $\sqrt{6}$
 - $2\sqrt{6}$
 - 6
- The greatest among $\sqrt{7} - \sqrt{5}$, $\sqrt{5} - \sqrt{3}$, $\sqrt{9} - \sqrt{7}$, $\sqrt{11} - \sqrt{9}$, $\sqrt{13} - \sqrt{11}$
 - $\sqrt{7} - \sqrt{5}$
 - $\sqrt{9} - \sqrt{7}$
 - $\sqrt{5} - \sqrt{3}$
 - $\sqrt{13} - \sqrt{11}$

7. Smallest among the following numbers $\sqrt[3]{9}, \sqrt{3}, \sqrt[4]{16}, \sqrt[6]{80}, \sqrt[12]{512}$
- (a) $\sqrt[3]{9}$ (b) $\sqrt{3}$
 (c) $\sqrt[4]{16}$ (d) $\sqrt[12]{512}$
8. By how much does $\sqrt{48} + \sqrt{18}$ exceed $\sqrt{3} + \sqrt{2}$?
- (a) $2(\sqrt{3} - \sqrt{2})$ (b) $2(\sqrt{3} + \sqrt{2})$
 (c) $3\sqrt{3} + 2\sqrt{2}$ (d) $\sqrt{2} - 4\sqrt{3}$
9. If $\sqrt{4x-9} + \sqrt{4x+9} = 5 + \sqrt{7}$ then the value of x is:
- (1) 4 (2) 5
 (3) 7 (4) 3
10. Given that $\sqrt{3} = 1.732$, the value of $\frac{3+\sqrt{6}}{5\sqrt{3}-2\sqrt{12}-\sqrt{32}+\sqrt{50}}$ is
- (a) 4.899 (b) 2.551
 (c) 1.414 (d) 1.732

SOLUTIONS

- 1: (a) $X = \frac{2\sqrt{10}}{\sqrt{2}+\sqrt{5}} \Rightarrow \frac{X}{\sqrt{2}} = \frac{2\sqrt{5}}{\sqrt{2}+\sqrt{5}}$ and $\frac{X}{\sqrt{5}} = \frac{2\sqrt{2}}{\sqrt{2}+\sqrt{5}}$
 Applying Componendo and Dividendo on both relations and adding, we get $\frac{X+\sqrt{2}}{X-\sqrt{2}} + \frac{X+\sqrt{5}}{X-\sqrt{5}} = 2$.
- 2: (a) $3^{(a+8)} = 27^{(2a+1)} \Rightarrow 3^{(a+8)} = 3^{3(2a+1)}$
 Equating the powers, we get $(a+8)=3(2a+1)$ or 'a' = 1.
- 3: (c) $\sqrt{\frac{X}{Y}} + \sqrt{\frac{Y}{X}} = \frac{X+Y}{\sqrt{XY}}$. Putting $X = \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$ and $Y = \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$,
 we get $(\sqrt{3}+\sqrt{2})^2 + (\sqrt{3}-\sqrt{2})^2 = 10$.
- 4: (b)
 Let $X = \sqrt{7\sqrt{7\sqrt{7\sqrt{\dots\infty}}}}$
 $X = \sqrt{7X}$
 Squaring both sides and solving for X, we get $X^2-7X=0$ or $X=0, 7$. But X can't be zero, so $X=7$.
- 5: (b)
 Let $X = 2 + \sqrt{3} = \frac{4+2\sqrt{3}}{2} = \left[\frac{\sqrt{3}+1}{\sqrt{2}}\right]^2$
 So, $\sqrt{X} + \frac{1}{\sqrt{X}} = \frac{\sqrt{3}+1}{\sqrt{2}} + \frac{\sqrt{2}}{\sqrt{3}+1} = \frac{6+2\sqrt{3}}{\sqrt{2}(\sqrt{3}+1)} = \sqrt{6}$
- 6: (c)

$$\frac{(\sqrt{7}-\sqrt{5})\times(\sqrt{7}+\sqrt{5})}{\sqrt{7}+\sqrt{5}}, \frac{(\sqrt{5}-\sqrt{3})\times(\sqrt{5}+\sqrt{3})}{(\sqrt{5}+\sqrt{3})}, \frac{(\sqrt{9}-\sqrt{7})\times(\sqrt{9}+\sqrt{7})}{\sqrt{9}+\sqrt{7}}, \frac{(\sqrt{11}-\sqrt{9})\times(\sqrt{11}+\sqrt{9})}{\sqrt{11}+\sqrt{9}}$$

$$\frac{\sqrt{13}-\sqrt{11}\times\sqrt{13}+\sqrt{11}}{\sqrt{13}+\sqrt{11}}$$

$$= \frac{2}{\sqrt{7}+\sqrt{5}}, \frac{2}{\sqrt{5}+\sqrt{3}}, \frac{2}{\sqrt{9}+\sqrt{7}}, \frac{2}{\sqrt{11}+\sqrt{9}}, \frac{2}{\sqrt{13}+\sqrt{11}}$$

Smallest one = $\frac{2}{\sqrt{13}+\sqrt{11}} = \sqrt{13} - \sqrt{11}$
 Greatest one = $\frac{2}{\sqrt{5}+\sqrt{3}} = \sqrt{5} - \sqrt{3}$

7. (d)
 LCM of 3, 2, 4, 6 and 12 = 12
 $9^{\frac{4}{12}}, 3^{\frac{6}{12}}, 16^{\frac{3}{12}}, 80^{\frac{2}{12}}, 512^{\frac{1}{12}}$
 $(9^4)^{\frac{1}{12}}, (3^6)^{\frac{1}{12}}, (16^3)^{\frac{1}{12}}, (80^2)^{\frac{1}{12}}, (512)^{\frac{1}{12}}$
 $(6561)^{\frac{1}{12}}, (729)^{\frac{1}{12}}, (4096)^{\frac{1}{12}}, (6400)^{\frac{1}{12}}, (512)^{\frac{1}{12}}$
 i.e. largest one = $\sqrt[3]{9}$
 Smallest one = $\sqrt[12]{512}$

8. (c); Sol. Required value will be the difference i.e. b/w $(\sqrt{48} + \sqrt{18})$ & $(\sqrt{3} + \sqrt{2})$
 $= (\sqrt{48} + \sqrt{18}) - (\sqrt{3} + \sqrt{2})$
 $4\sqrt{3} + 3\sqrt{2} - \sqrt{3} + \sqrt{2}$
 $= 3\sqrt{3} + 2\sqrt{2}$
9. (a); $\sqrt{4x-9} + \sqrt{4x+9} = 5 + \sqrt{7}$
 On squaring,
 $\Rightarrow 4x - 9 + 4x + 9 + 2\sqrt{(4x-9)(4x+9)}$
 $= 25 + 7 + 10\sqrt{7}$
 $\Rightarrow 8x + 2\sqrt{(4x-9)(4x+9)} = 32 + 2 \times 5\sqrt{7}$
 $\Rightarrow 8x = 32$
 $\Rightarrow x = 4$
10. (d); $\frac{3+\sqrt{6}}{5\sqrt{3}-4\sqrt{3}-4\sqrt{2}+5\sqrt{2}} = \frac{3+\sqrt{6}}{\sqrt{3}+\sqrt{2}} = 1.732$



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Handy Notes Reasoning for Banking & SSC : Clock & Calendar

CALENDAR

- Ordinary year (O.Y.) = 365 days = 52 weeks + 1 day
- Leap year (L.Y.) = 366 days = 52 weeks + 2 days
- 100 years = 76 O.Y. + 24 L.Y.
- **Odd days** : - When total number of days is divided by 7, then the remainder is called odd days
 In ordinary year = 1 odd day
 In leap year = 2 odd days.
 For 100 years = 76 O.Y + 24 L.Y.

$$\begin{array}{ccc} & \downarrow & \downarrow \\ & 76 \text{ odd days} & 24 \times 2 = 48 \text{ odd days} \end{array}$$

$$\therefore \text{Total odd days in 100 years} = (76+48)/7 = 124/7 = 5 \text{ odd days}$$

$$\therefore 100 \text{ years} = 5 \text{ odd days}$$

$$200 \text{ years} = (5 + 5 = 10) = 3 \text{ odd days}$$

$$300 \text{ years} (5 + 5 + 5 = 15) = 1 \text{ odd day}$$

$$400 \text{ years} = (5 + 5 + 5 + 6 = 21) = 0 \text{ odd day}$$
 Since, (400 year is century year and also a leap year so, 1 day increases)
- A year except century year divisible by 4 is called leap year.
- A century year divisible by 400 is called leap century.

No. of odd days in months.

- (1) January = 3
- (2) February = 1 (for L.Y)
- (3) March = 3
- (4) April = 2
- = 0 (for O . Y)
- (5) May = 3
- (6) June = 2
- (7) July = 3
- (8) August = 3
- (9) September = 2
- (10) October = 3
- (11) November = 2
- (12) December = 3

Week days code

- Sunday = 0
- Monday = 1
- Tuesday = 2
- Wednesday = 3
- Thursday = 4
- Friday = 5
- Saturday = 6

CLOCK

Clock has two types of hand. Minute hand is called Long hand while hour hand is known as Short hand. In this topic there are some types of question such as :-

- (a) Questions on basic concepts.

- (b) Find out angle between both hands of a clock.
- (c) Find out accurate time for a given angle.

Concept :

Clock works as a circle, such as it has complete 360° angle.

- (1) In an hour, a minute hand cover a complete circle or we can say 12 Blocks
 12 Blocks = 360°
 1 Block = 30° [∴ 1 Block = 5 min]
 1 min = 6°
- Note** : The minute hand cover 6° angle within a minute.
- (2) In an hour, a hour hand covers 1 Block. For example. If its 4'0 clock and after one hour it will be at 5'0 clock.
 1 hour = 1 Block
 60 min = 5 min [∴ 1 Block = 5 min]
 60 min = 30°, ∴ 1 min = ½ degree

Note : An hour hand cover $\frac{1}{2}$ degree angle within a minute.

Angle Between Two Hands

- When the hour hand ahead of the minute hand then we use the following formula :

$$\left| \frac{(13M - 60H)}{2} \right| \text{ or } \left| (M - 5H) \times 6 + \frac{M}{2} \right|$$
- When the hour hand behind the minute hand then we use the following formula :-

$$\left| \frac{(11M - 60H)}{2} \right| \text{ or } \left| (M - 5H) \times 6 - \frac{M}{2} \right|$$
- When both the hands of a clock are in opposite direction to each other, when they are 30 minutes space a part and they make 180°. This situation occurs once in an hour, 11 times in 12 hours and 22 times in a day (24 hours) because in between 5 to 6 and 6 to 7, they are not in opposite direction.
- When the hands of the clock make 0°, they are said to be coincident or overlapping. This situation occurs once in an hour. 11 times in 12 hours and 22 times in a day (24 hours) because between 12 and 1, overlapping is not possible.
- When both the hands of clock are at right angle (when the distance between two hands measure 90°) At this time, they are 15 minutes space apart. This situation occurs twice in one hour, 22 times in 12 hours and 44 times in a day. In between 2 and 3, 3 and 4, one right angle is common and 8 to 9 only one time right angle will possible
- Between H and (H + 1) hours two hands coincide at

$$= \frac{60}{11} \times H \text{ past } H$$

Solved Examples

Example 1. At what angle, the hands of a clock are inclined at 40 minutes past 4 ?

- (a) 75° (b) 80°
(c) 90° (d) 100°

Sol. : (d) 100°

$$\theta = \left| \frac{11M - 60H}{2} \right|$$

$$\theta = \left| \frac{11 \times 40 - 60 \times 4}{2} \right|$$

$$= \left| \frac{440 - 240}{2} \right| = \left| \frac{200}{2} \right| = 100^\circ$$

Example 2. An accurate clock shows 8 o'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon?

- (a) 144° (b) 150°
(c) 168° (d) 180°

Sol. : (d) 180°

Angle traced by the hour hand in 6 hours

$$= \left(\frac{360}{12} \times 6 \right)^\circ = 180^\circ$$

Example 3. The angle between the minute hand and the hour hand of a clock when the time is 4 : 20 is

- (a) 0° (b) 10°
(c) 5° (d) 20°

Sol. : (b) 10°

Angle traced by hour hand in

$$4 \frac{20}{60} = 4 \frac{1}{3} = \frac{13}{3} \text{ hrs is } \left(\frac{360^\circ}{12} \times \frac{13}{3} \right) = 130^\circ$$

Angle traced by minute hand in 20 min =

$$\left(\frac{360}{60} \times 20 \right)^\circ = 120^\circ$$

∴ Angle between the minute hand and hour hand of a clock when the time is 4;20

$$= 130^\circ - 120^\circ$$

$$= 10^\circ$$

Or

$$\theta = \left| \frac{11M - 60H}{2} \right| = \left| \frac{11 \times 20 - 60 \times 4}{2} \right|$$

$$= \left| \frac{220 - 240}{2} \right| = \left| \frac{-20}{2} \right| = | -10 |$$

$$\boxed{\theta = 10^\circ}$$

Example 4. What was the day on 15th August 1947 ?

- (a) Friday (b) Monday

(c) Sunday

(d) Wednesday

Sol. : (a) Friday

1947 August 15

↓

First of all make pair

1600 + 300 + 46 and 15

odd days in 1600 years = 0

odd days in 300 years = 1

odd days in 46 years = 47

(In 46 years = 35 simple years + 11 leap years

No of odd days in 35 simple years = 35 odd days

No. of odd days in 11 leap years = 2 × 11 = 22 odd days

∴ 35 + 22 = 57 odd days

Number of odd days between 1st January to 15 August

Jan	Feb	March	Apr.	May	June	July	Aug.
3	0	3	2	3	2	3	15

∴ Total no. of odd days = 0 + 1 + 57 + 3 + 0 + 3 + 2 + 3 + 2 + 3 + 15 = 89

$$\begin{array}{r} 7 \overline{) 89} \quad (12 \\ \underline{7} \\ 19 \\ \underline{14} \\ 5 \end{array}$$

Since, Remainder = 5

∴ It is Friday

Example 5. If 6th march, 2005 is Monday, what was the day of the week on 6th march, 2004 ?

- (a) Sunday (b) Saturday
(c) Tuesday (d) Wednesday

Sol. : (a) Sunday

2004 = Leap year = 2 odd days

But, feb 2004 not included because we are calculating from March 2004 to March 2005, so it has 1 odd day

The day on 6th March, 2005 will be 1day beyond the day on 6th March, 2004

Given that, 6th March, 2005 is Monday

∴ 6th March 2004 is sunday (1 day before to 6th March 2005)

Example 6. If the 1st October is Sunday. Then 1st November will be –

- (a) Tuesday (b) Wednesday
(c) Sunday (d) Friday

Sol. : No of days between 1st Oct. to 1st Nov = 31

$$\begin{array}{r} 7 \overline{) 31} \quad (4 \\ \underline{28} \\ 3 \end{array}$$

∴ Rem = 3

∴ 3 days after Sunday will be Wednesday

Handy Notes English : 5 Mistakes to Avoid While Preparing for SBI PO

SBI PO recruitment brought a big opportunity for all banking aspirants and with this came a bigger challenge to prepare for all the phases of recruitment. Here we are discussing those 5 Mistakes that every aspirant aiming at SBI PO should avoid.

1. Do you just study what you like? Well, that's the first mistake most students make!

Yes, we know you like to start with the subject you are strong in, planning to finish it off first and get over with one subject from the 3 Reasoning, English and Quant and then thinking of taking up the other two. *But is that really a good plan?* SBI Recruitment is not looking for masters in English or Quant, **you have to be reasonably good in all the subjects not only these 3 but also General Awareness and Computers to pass the get through all the phases of the recruitment process.**

If you are good in quant and puzzled with English then devote more time to the weaker subject and practice all the subjects daily to get a good hold on them. Remember for Prelims and Mains Exam there is sectional cut off as well as a complete cut off for the online test.

2. Don't get influenced by other's judgment

Is that noisy neighbour or relative bothering you in making a decision for your own good? Well, then you shouldn't be influenced in a negative way from anyone. Be determined and understand that each and every person is different; no one plan can be the ultimate and divine success mantra for all. People might judge you, impose their perceptions but you have to choose ultimately what to do and what not to do!

Decide your goal and plan your strategy according to your strength and weakness, choose smart work. Divide your course of the day to accordingly to study every subject and subsequently strengthen your weaker section. If you are determined and you say 'I will' then you'll surely get selected in SBI PO, it's one's own self that keeps us from moving ahead, and if you are determined and dedicated to work nothing can stop you.

3. Do you think that just understanding concepts and learning methodology is all that you need to do? Wait, what about real time practice, don't skip onto the most important part.

Yes, it is very important to understand rules and concepts of English and Reasoning; learn formulas and practice Quant, but that is not all. **Every aspirant must understand that banking examination is about time and topic management.** As far as the preliminary examination is concerned you'll have 100 questions for just 60 minutes. Practically not even 1 minute per

question, in those 60 minutes you'll have to be accurate in marking answers to avoid deduction of marks and choose what to attempt and what to leave. Real time practice of examination is the most important phase in preparation for any banking exam you are aiming at. Time to time you can give speed tests and test yourself, see where you stand in the competition and after analysis, improvise subsequently.

4. Are you buried under a dome preparing day-in-day-out for SBI Exam? That is not good at all Pay attention to your mind, body and soul.

Don't give up your sleep for studying. Extensive preparation, studying and not paying attention to your health is not a good idea. If you'll be fit and healthy it will ultimate help you in staying more enthusiastic for your goal and study in a better and more effective way. Make a morning routine, go for a walk and refresh yourself to have a good start of the day. You can meditate to channelise your energy to focus on your goal and plan the day, what you'll be studying, what will be your target for today? These small goals will ultimately help you become successful. **Adopt a holistic approach focusing on the nourishment of your mind, body and soul.**

5. Feeling nervous for SBI PO Recruitment!... Never lose your confidence

No matter what, never lose your will, determination and confidence. **Hurdles, obstacles will be in your way but your confidence is the ultimate resource that will keep you going.** There is nothing to get panicked about; you can get selected in SBI if you adopt the right approach. Think of what you missed last year, why weren't you able to get through and improvise in these two and half months. Be confident and Study with a proper approach and you can be Probationary Officer in SBI in 2017.



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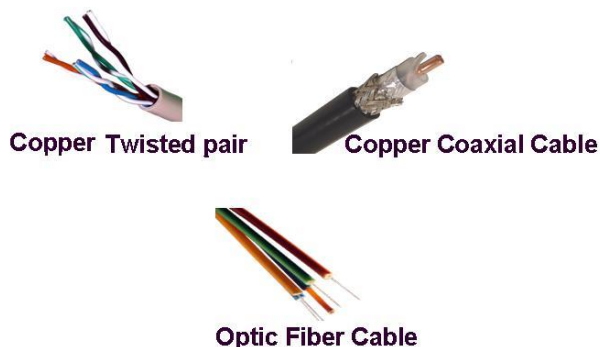
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Handy Notes Computer : Transmission Media - Guided

Transmission Media : Guided

Transmission medium is the means through which we send our data from one place to another. The first layer (physical layer) of Communication Networks OSI Seven layer model is dedicated to the transmission media. This is all about Guided Transmission Media.



Twisted-Pair Cable

A twisted-pair cable is a commonly used Ethernet cable. It uses wire pairs where wires in each pair are twisted together. Out of one such pair, one wire is used as a signal carrier that transmits the data signal from the sender to the receiver and the other wire is used as a ground reference to reduce crosstalk (the disturbance caused once a magnetic field of one signal influences the adjoining signal) and noise.

This cable is the most commonly used and is cheaper than others.

The twisted pair cable also has two types:

Unshielded Twisted Pair (UTP), Shielded Twisted Pair (STP)

Shielded has same attenuation as unshielded twisted pair, but shielded is faster than the unshielded and coaxial cable.

Coaxial Cable

A coaxial cable comprises two copper conductors, namely inner conductor and braided shield. The design of this cable is hard. Coaxial cables are usually used in cable TV networks and Ethernet LANs. It is surrounded by PVC installation, a sheath which is encased in an outer conductor of metal foil, braided or both.

There are two types of Coaxial cables :

BaseBand

This is a 50 ohm (Ω) coaxial cable which is used for digital transmission. It is mostly used for LAN's. Baseband transmits a

single signal at a time with very high speed. The major drawback is that it needs amplification after every 1000 feet.


BroadBand

This uses analog transmission on standard cable television cabling. It transmits several simultaneous signals using different frequencies. It covers large area when compared with Baseband Coaxial Cable.

Fiber Optic Cable


Fiber optic cable is a network cable that is made up of glass and plastic. The inner core of the cable, which is made up of glass, is used as a transmission medium for transmitting signals in the form of light. Electrical signals are first transformed into optical signals, which move through a narrow glass fiber strand. As these signals reach the destination, they are again transformed into electrical form. Fiber optic cables are usually used as a transmission medium in Ethernet media systems, such as Fiber Optic Inter-Repeater Link (FOIRL).

These cables are thinner and lighter compared to metallic cables, have higher bandwidth, transmit more data, and can be used for long distances. However, these cables are costly and hard to install.



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Handy Notes Banking : All about the Bharat QR: The QR Code Based Payment System

In the bid to promote digital economy in the country, Government of India has launched a new payment method using QR codes named Bharat QR. It is launched after various new payment methods like UPI payment and BHIM App for smartphones.



It is launched to boost digital transactions, that will make use of QR codes system for payments across merchant outlets. It is the world's first interoperable payment system.

Important facts related to Bharat QR

- ✚ The National Payments Corporation of India (NPCI), Mastercard, and Visa has developed it.
- ✚ BharatQR code would require merchants to only display one QR code instead of multiple ones.
- ✚ It will ensure that people do not suffer from card loss or card expiry problem.

✚ It was devised after the Reserve Bank of India's (RBI) direction in September last year, in order to make payments seamless for buyers as they just have to "scan to pay" for transactions instead of swiping their credit/debit cards.

What is QR code?

The QR code or Quick Response code is a two-dimensional machine-readable code, which is made up of black and white squares and is used for storing URLs or other information. These can easily be read by the camera of a smartphone.

Bharat QR Aim & Use

Bharat QR code aims at standardising the QR code payment method through the country. For this, payment networks like MasterCard, American Express, National Payment Corporation of India (NPCI) and Visa have collaborated to promote wider acceptance of the Bharat QR payment method.

However, after the introduction of Bharat QR code, a consumer can simply open his or her banking app or BHIM app, scan the merchant's QR code, enter the payable amount and enter the four digit code to authenticate the transaction. The amount will be directly transferred to the merchant's bank account once the transaction is complete. In short, this will provide customers with an easy scan and pay option irrespective of their card type. The method would eliminate the need of PoS machines on a merchant outlet. This will help merchants in avoiding investments in PoS machines and the transaction fees charged by the banks for transactions through the PoS systems.

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Handy Notes GS : Gupta Empire Part 2

Students, we discussed all the important rulers of the Gupta Dynasty in the March Edition History Notes. Now, we will discuss the decline of the Gupta Empire & all the important points related to the Administrations, Literature & other works. Let's discuss & end the Gupta Empire.

KUMARAGUPTA I

Also called **Mahendraditya**, Kumaragupta ruled the Gupta Empire during the period AD 414 to 455. Kumaragupta's successor Skandagupta defeated but then was faced with invading Huns from the north-west. He died in AD 480 and was succeeded by his son Narasimhagupta. Narasimhagupta was followed by Buddhagupta and Purugupta. The last recognised ruler was Vishnugupta, reigning from AD 540 to 550.

After the decline of the Gupta Empire, another line of Mukhari kings emerged in the northern Ganges plains of Kanauj. The Maukari dynasty, Mukharis defeated the Guptas and captured the entire of the Magadha region. The Guptas then moved towards the east, where they came under the influence of **King Prabhakaravardhana** (Harsha's father) of Thanesar (Kannauj). The last king in the Maukhari Dynasty, **Ghrahavarman**, died without heirs and Kanauj passed to his brother-in-law Harsha (whose reign is discussed later). When Harsha's Empire fell, the Guptas again emerged under **King Aditysen** (AD 675), but they were finally defeated by another Maukahri King of Kanauj, **Yasovarma**, in the eighth century.

Administration of Gupta Dynasty

In Gupta period the army was to be fed by the people whenever it passed through the countryside. This tax was called Senabhakta.

Contributions of Gupta Rulers

- Kings were called Parameshwara /Maharajadhiraja / Paramabhataraka.
- The most important officers were Kumaramatyas.
- They issued the largest number of gold coins in Ancient India, which were called Dinars. Silver coins were called rupyakas.
- Nalanda (a university) was established as a Buddhist monastery during the reign of Kumara Gupta.

Gupta Religion :

- Bhagavad-Gita was written during this time only.
- Bhagavatism centered around worshipping Vishnu or Bhagvat.
- Vishnu temple at Deogarh (near Jhansi), a small temple near Sanchi and a brick temple at Bhitragaon (near Kanpur) belong to the Gupta architecture.

Gupta Literature in India :

- Kalidas, the great Sanskrit dramatist, belonged to this period. His books are: Abhigyanashakuntalam, the Bhagavadgita, Ritusamhara, Meghadutam, Malavikagnimitram, Raghuvansha, Vikramuvashi etc. Out of these, Ritusamhara, Meghadutam, Raghuvansha were epics and the rest were plays.
- Vishakhadatta wrote Mudrarakshasa and Devichandraguptam.
- The Gupta period also saw the development of Sanskrit grammar based on Panini and Patanjali.
- Ramayana & Mahabharata were almost completed by the 4th century AD.
- **Vasubandhu** is known for the first book on logic, a Buddhist work.
- Other notable works and authors of the Gupta era are Kaviraja by Samudragupta; Amarakosa by Amarsimha; Ashtadhyayi, Chandravyakaranam, book of grammar by a Bengali Buddhist scholar Chandragomia; Surya Siddhanta by Aryabhata, dealing in the study of the solar system; Aryabhattiyam by Aryabhata, a study of arithmetic, geometry and algebra; Ghokoki, a travelogue on India, by Fa-hein; & Kamasutra, Nyayabhashya by Vatsayana.

GUPTA ARTS

During the Gupta age, the Nagara and the Dravida styles of architecture were prominent. **Rock-cut caves**, with novel ornamentation and designs, were also excavated during this period. Notable works are in the caves at **Ajanta** and **Ellora** (Maharashtra), **Bagh** (Madhya Pradesh) and **Udayagiri** (Orissa). Gupta architecture is also represented by many **brick temples** in Uttar Pradesh, Madhya Pradesh, Bengal, Bihar and Assam. The most famous is the temple at **Bhitargaon** (near Kanpur) with moulded and decorated bricks. Another important temple with 40 ft high towers is the **Dashavatara temple** near Deogarh.

THE HINDU REVIEW : FEBRUARY 2017

1. The Ministry of Railway has proposed the Finance Ministry to create a non-lapsable safety fund named 'Rashtriya Rail Sanraksha Kosh' over five years with initial corpus of Rs. 20000 crore and contribute a portion to fund it in the Budget 2017. It is based on the recommendation of a high-level safety review committee under the chairmanship of Dr. Anil Kakodkar.
2. The programming committee meeting of South Asian Association for Regional Cooperation (SAARC) held at Kathmandu.
3. The Ministry of Defence is set to open its Defence Unit in Morena district of Madhya Pradesh.
4. Income Tax Department (ITD) led by Sushil Chandra has launched Operation Clean Money to verify the cash deposited in the banks during November 9th to December 30th 2016. An online Verification process will be carried out by comparing the demonetisation data CBDDT with information in ITD databases.
5. Meghalaya's first ever Apparel and Garment Making Centre was inaugurated by Union Textiles Minister Smriti Zubin Irani and Chief Minister of Meghalaya Dr. Mukul Sangma near Ampati in South West Garo Hills.
6. Private sector lender Lakshmi Vilas Bank in partnership with Bangalore based fin-tech startup firm Fisdome, has launched a mobile application Mission FINFIT to offer the customers of the bank financial planning and personal wealth management services based.
7. According to ICRA, the bank credit growth rate is likely to float between 5-6% in the current fiscal year (2017).
8. UN children's agency UNICEF has launched an appeal for 3.3 billion US Dollar to help 48 million children caught up in crises worldwide amid fears of a funding cut from top donor the United States.
9. Former Delhi Police Commissioner Alok Verma took charge as the new CBI Director.
10. Moussa Faki Mahamat has been elected as the head of AU Head, the African Union Commission. He will replace Nkosazana Dlamini-Zuma.
11. US House of Representatives has introduced a legislation, making it mandatory to raise the minimum salary of the H-1B visa holders to more than double at USD 1,30,000 from the previous USD 60,000.
12. Ireland has become the first country in the world to divest coal, oil and gas investments from Ireland Strategic Investment Fund.
13. Former Union Minister E Ahamed died at the age of 78.
14. A new scheme will be introduced by Govt of India to create infrastructure for exports, a move aimed at reducing transaction costs for traders. A new and restructured central scheme with a focus on export infrastructure namely Trade Infrastructure for Export Scheme (TIES) will be launched in 2017-18.
15. Finance Minister Arun Jaitley announced a whopping Rs 1 lakh crore hike in the credit target for the next financial year to Rs 10 lakh crore as part of the government's efforts to double farm incomes in the next five years. The government provides short-term crop loans up to Rs 3 lakh at subsidised interest rate of 7% per annum. An additional incentive of 3% is provided to farmers for prompt repayment of loans within due date, making an effective interest rate for them at 4%.
16. Finance Minister Arun Jaitley has proposed creation of a six-member Payments Regulatory Board in the RBI, headed by RBI Governor Urjit Patel as part of bringing about structural reforms in the payment eco-system.
17. Sanjeev Sanyal, former global strategist and Managing Director of Deutsche Bank, was appointed as Principal Economic Adviser.
18. India's Lakshya Sen has become the World No 1 Junior Badminton player.
19. Tech giant Apple has reached an agreement with the Karnataka government to set up a manufacturing plant in Bengaluru, Karnataka.
20. India is expected to clock GDP growth of 7.1 per cent in 2017-18 as the country gets sufficiently remonetised and the schemes in the Budget play a supportive role, says an HSBC report.
21. The Sports Ministry budget got a substantial hike of Rs 350 crore in the union budget for 2017-18, presented by Finance Minister Arun Jaitley in the Parliament. Jaitley allocated a total of Rs 1943 crores.
22. A truly global event taking place every year on 4 February, World Cancer Day unites the world's population in the fight against cancer. Taking place under the tagline 'We can. I can.'
23. In a bid to discourage cash transactions, the country's second-largest private sector lender HDFC Bank has decided to steeply increase the fees for savings account holders on a slew of activities involving cash.
24. Former CBI chief Joginder Singh, who oversaw investigation of several high-profile cases has passed away at aged 77 years.
25. Leading stock exchange National Stock Exchange (NSE) selected IDFC chief Vikram Limaye as its new CEO and Managing Director
26. Champion cueist Pankaj Advani has won the Indian National Snooker Championship with a 6-0 win over Pandurangaiah of Railways in a one-sided final.
27. The Centre has formed a six-member committee to give a report on ways to improve India's Haj policy and also look into the issue of subsidy to the pilgrimage in light of 2012 Supreme Court order on gradually reducing and abolishing it by 2022. Former Consulate General of India (CGI), Jeddah,

Afzal Amanullah has been appointed as convener of the high-level panel.

28. American startup Planet Labs, that launches small satellites into orbit and sells the imagery, has announced its acquisition of Google's 'Terra Bella' satellite business.
29. England Test captain Alastair Cook has been honoured with Commander of the Most Excellent Order of the British Empire (CBE).
30. KPMG India board has elected Arun M Kumar as chairman and CEO to lead the India operations of the consulting and accounting major. He succeeds Richard Rekhy.
31. Health Ministry launched Measles Rubella vaccination campaign in the country at a function in Bengaluru.
32. The Union Minister for Sports Vijay Goel laid the foundation stone of the country's first centre of excellence for differently abled sportsmen at Gandhinagar, Gujarat.
33. In a move to bring about paradigm shift towards holistic development of villages, Assam Chief Minister Sarbananda Sonowal launched the Chief Minister Samagra Gramya Unnayan Yojana, CMSGUY in Guwahati .
34. Corporation Bank has signed an agreement with Religare Health Insurance Co Ltd to market its products and services through the distribution network of the bank across India.
35. The Telangana government has launched India's first social innovation centre The 'Kakatiya Hub For Social Innovation' in Nizamabad, Telangana.
36. Renowned Pakistani Urdu novelist and playwright Bano Qudsia has passed away here. She was 88.
37. The Union Human Resource Development Ministry led by under Prakash Javadekar is set to constitute a National Testing Agency (NTA) which will be responsible for conducting examinations for higher and secondary education.
38. The Railway Ministry is set to develop the first ever railway line in Andaman and Nicobar Island that currently has no rail network. It is set to approve the project that will construct 240-km broad gauge railway line connecting Port Blair with Diglipur, the largest town on Andaman Island.
39. Public sector lender Bank of Maharashtra has partnered with insurance company Cigna TTK Health to market the insurer's products in the bank's branches across the entire country.
40. India's third largest private bank, Axis Bank has tied up with Earthport Plc, a cross-border payment network, to enable faster outbound cross-border payments for its customers.
41. The Ujjivan Small Finance Bank officially started its operation with 5 pilot branches in Bengaluru. Samit Ghosh is the MD and CEO of the Ujjivan Small Finance Bank.
42. The Indian Coast Guard Ship (ICGS) Samudra Pavak made a goodwill visit at the Mina Al Rashid (Dubai Port).
43. Renowned Indian-origin British sculptor Anish Kapoor was honored with the prestigious \$1 million 2017 Genesis Prize by Israel for his utmost contribution for Jewish community.
44. Queen Elizabeth II, the world's longest reigning sovereign, became the first British monarch to reach her Sapphire Jubilee, with 65 years on the throne.
45. The Billiards and Snooker Federation of India (BSFI) informed that India will host the World Billiards Championship for the next four years.
46. Alastair Cook has resigned as England Test captain after a record 59 matches in the role.
47. Iran lifted up the ban which it had imposed on United States Wrestlers, thus allowing them to participate in the Freestyle World Cup to be held in Iran in February 2017.
48. RBI governor Urjit Patel led Monetary Policy Committee (MPC) kept the key repo rate unchanged at 6.25% in the first monetary policy review of 2017 and after Budget 2017. Limit on cash withdrawal from savings banks accounts to be relaxed in 2 stages. From 20 February, 2017 limit to be increased from Rs 24k to Rs 50K. From 13 March, 2017 there will be no limit on cash withdrawal from savings bank accounts.
49. Policy rates: Repo Rate- 6.25% Reverse Repo Rate- 5.75%
50. Marginal Standing Facility Rate- 6.75% Bank Rate- 6.75%
51. The Implementation and Assessment Group Meeting of the Global Initiative to Combat Nuclear Terrorism held in New Delhi.
52. The 23rd edition of International Conference and Exhibition on Terrestrial & Satellite Broadcasting was held in New Delhi. The theme of the conference is 'Hybrid Technologies in Broadcasting New Opportunities'.
53. Bank of Baroda (BOB) has tied up with IFFCO, a cooperative, to provide co-branded debit cards with inbuilt overdraft facilities to the farmers.
54. ICICI Securities, a subsidiary of ICICI Bank, has entered into a strategic partnership with Saxo Bank, an online multi-asset trading and investment specialist. It will enable ICICI Securities' clients to diversify their investments outside of the domestic Indian market.
55. Private sector lenders HDFC Bank and Kotak Mahindra Bank are live with the Bharat Bill Payment System (BBPS) that is aimed at easing utility and other repetitive bill payments for consumers. BBPS is a centralised system created by the National Payments Corporation.
56. In United States, Senate has confirmed President Donald Trump's controversial nominee for Education Secretary, Betsy DeVos.
57. Sourabh Verma clinched the Men's Singles title defeating Lakshya Sen in the 81st Senior National Badminton Championships tournament played in Patna. Rituparna Das claimed the Women's Singles title defeating Reshma Karthik in the tournament.
58. Union Cabinet chaired by the Prime Minister Shri Narendra Modi has approved 'Pradhan Mantri Gramin Digital Saksharta Abhiyan' (PMGDISHA) to make 6 crore rural households digitally literate. The outlay for this project is

Rs.2,351.38 crore to usher in digital literacy in rural India by March 2019.

59. US Senate voted to confirm Republican Senator Jeff Sessions as the next Attorney General of the United States.
60. India and Austria signed a protocol to amend the existing bilateral taxation treaty for Avoidance of Double Taxation and the Prevention of Fiscal Evasion.
61. In a bid to strengthen cyber security system, the Reserve Bank (RBI) decided to set up an inter-disciplinary panel on cyber security to examine various threats and suggest measures to deal with it.
62. Arunachal Pradesh has become the first state in the northeast to implement e-cabinet solution for the state cabinet members. Using this system, the cabinet members can access the cabinet notes before the meeting.
63. The 17th session of the senior officials' meeting of the BIMSTEC held in Kathmandu. During the meeting, Prime Minister of Nepal, Pushpa Kamal Dahal announced that the 4th BIMSTEC Summit would be hosted by Nepal in 2017.
64. China has surpassed Germany to become the world's largest producer of solar energy after nearly doubling its installed photovoltaic capacity in 2016.
65. Private sector lender IDFC Bank has collaborated with fintech startup IndiaLends to enable first-time borrowers who do not have a credit history to take loans.
66. Central Board of Direct Taxes (CBDT) has entered into four more unilateral Advance Pricing Agreements (APAs). With this, the total number of APAs entered into by the CBDT has reached 130.
67. Russia will miss August's World Athletics Championships in London after their doping ban was extended.
68. Racharla Samrajyam, a veteran freedom fighter, passed away following age-related illness at Vishakhapatnam. She was 98.
69. Netaji Subhash Chandra Bose's driver and INA veteran 'Colonel' Nizamuddin has passed away in his native village of Dhakwa in Azamgarh after a prolonged illness.
70. The government has sold two per cent stake in ITC to Life Insurance Corporation of India (LIC) and earned Rs 6,690 crore (around \$1 billion) as part of its divestment plan for 2016-17.
71. The Government has appointed three part-time Non-Official Directors on the all-powerful Central Board of the Reserve Bank of India for a four-year term. The Appointments Committee of the Cabinet (ACC) has appointed Ashok Gulati, Manish Sabharwal and Rajiv Kumar as part-time Non-Official Directors on the Central Board.
72. Gujarat has become the first state in the country for establishing the cashless system in its public distribution system (PDS) of food grains.
73. Hemant Bhargava has appointed as Managing Director of state-owned Life Insurance Corporation (LIC) of India.
74. To give a leg up to micro, small and medium enterprises (MSME) in the diamond industry, Bank of Baroda is planning to launch a supply chain financing product for the industry on a pilot basis in Surat.
75. With just 238 days remaining for the start of FIFA Under-17 World Cup India 2017, the official mascot of the tournament 'Kheleao' was unveiled at the Jawaharlal Nehru Stadium in New Delhi. A clouded leopard called Kheleao was introduced to hundreds of football fans in a ceremony attended by Sports Minister Vijay Goel and All India Football Federation President Praful Patel.
76. Virat Kohli recorded his sixth Test 150, against Bangladesh at Hyderabad to set the record for most 150-plus scores by an Indian captain in Tests.
77. India's top-order batsman Cheteshwar Pujara added another feather to his cap. Pujara surpassed the 52-year long-standing record of former Indian cricketer Chandu Borde of highest first-class runs in a single cricketing season.
78. The government stated that it would make 5.58 lakh ration shops Aadhaar-enabled by June 30, 2017 adding that it would not force it on the people and request those who chose to stay out, to come and join the platform.
79. The Union Minister of Chemicals & Fertilizers and Parliamentary Affairs, Shri Ananth Kumar inaugurated the Orientation Programme for the district heads of National Yuva Cooperative Society (NYCS) in New Delhi to launch the Pradhan Mantri Bhartiya Janaushadhi Kendras (PMBJKs) in the country.
80. A 33 member committee has been constituted under the chairmanship of Andhra Pradesh's Chief Minister N Chandrababu Naidu for the speedy implementation of the Sagarmala Project in Andhra Pradesh. Sagarmala project aims to improve the state's coastline and inland waterways.
81. The Union Minister of State (IC) for Power, Coal, New & Renewable Energy and Mines, Shri Piyush Goyal launched the TAMRA (Transparency, Auction Monitoring and Resource Augmentation) portal and Mobile Application in New Delhi. It aims to enhance the transparency accountability in the mining sector.
82. Industrial output fell 0.4% in the month of December, 2016 from a year 2015, driven down by a contraction in consumer and capital goods production.
83. In the latest move to curb tax evasion, the government has set up a task force to monitor actions of deviant shell companies. Committee formed under the co-chairmanship of Hasmukh Adhia and Tapan Ray to review the functioning of shell companies to prevent their misuse for money laundering and tax-evasion.
84. Senior Finance Ministry official Ajay Tyagi has appointed as chairman of Securities and Exchange Board of India (SEBI). He will succeed U K Sinha.
85. 2017 BRICS association of Brazil, Russia, India, China and South Africa to be held in Xiamen, China in 2017. The summit will be held under the theme "BRICS: Stronger Partnership for a Brighter Future."
86. Folk singer from Punjab Satinder Sartaaj has been selected

for the awareness project against human trafficking 'Blue Heart Campaign' by the United Nations Office on Drugs and Crime (UNODC).

87. Finland multinational communications and information technology company Nokia announced to buy telecoms software firm Comptel for 347 million euros (\$371 million).
88. Sand artist Sudarsan Pattnaik has created a Guinness World Record by creating a 48.8 feet tall sand castle at Puri beach in Odisha.
89. UK physicist and Nobel laureate Sir Peter Mansfield has died. He was 83.
90. Prof Neelu Rohmetra of Jammu University is the first woman to be appointed director of an IIM at Sirmaur (HP).
91. US and Japanese military have successfully tested the Standard Missile-3 (SM-3) Block IIA missile defence system by intercepting a medium-range ballistic missile target in space for the first time. The missile was launched from a ship off the west coast of Hawaii, US.
92. Every year 12th to 18th of February is celebrated as the National Productivity Week. This year the theme of week is 'From Waste to Profits-through Reduce, Recycle and Reuse.'
93. Jiro Taniguchi, a legend in Japan's comic art of manga, died at the age of 69.
94. India beat Pakistan by 9-wickets to win T20 Blind World Cup at Bengaluru's M Chinnaswamy Stadium. Man-of-the-match was Prakash Jayaramaiah. Man-of-the-series Badar Munir was the top-scorer for Pakistan.
95. The World Radio Day observed on 13 February 2017. The theme for the 2017 edition of World Radio Day is 'Radio is You'.
96. The three-day National Women's Parliament, being organised by Andhra Pradesh Legislative Assembly with the theme of 'Empowering Women - Strengthening Democracy', began in the state capital region Amaravati.
97. The 2nd edition of the International Spice Conference began at Kovalam in Thiruvananthapuram district of Kerala. The theme of the conference is '21st Century Spic Industry- Disrupt or be Disrupted'.
98. The centre has approved setting up the Electronic Development Fund Tele communication with a total corpus of Rs. 6,831 crores to support entrepreneurship and innovation in electronics and IT.
99. Monnet Ispat & Energy Ltd. CMD Sandeep Jajodia has been appointed the new president of industry chamber Assocham.
100. Former IFS officer Narinder Chauhan has been appointed as the next Ambassador of India to the Republic of the Philippines.
101. The FIFA governing body has named Argentina's former soccer player Diego Maradona as the new Ambassador of the FIFA.
102. Cello virtuoso Yo-Yo Ma won a Grammy with his Silk Road Ensemble for Sing Me Home.
103. The eminent thinker, writer and journalist Pandit Dharmshel Chaturvedi passed away.
104. Jiro Taniguchi, a Japanese manga writer died in Tokyo. He was 69.
105. Indian off-spin specialist Ravichandran Ashwin became the fastest cricketer to take 250 wickets in Test matches.
106. The 11th International Aerospace and Defence Exhibition - Aero India 2017 held at the Air Force Station, Yelahanka in Bengaluru, Karnataka.
107. Thailand is seeking India's cooperation in a number of sectors, such as aerospace, automation, medical devices, pharmaceutical, bio-technology and IT/ITes, as it strives to transform into a value-based economy.
108. India's first floating elementary school particularly for drop outs has been inaugurated on Loktak lake at Langolsabi Leikai of Champu Khangpok floating village in Manipur.
109. The Karnataka assembly unanimously passed the Prevention of Cruelty to Animals (Karnataka Amendment) Bill, 2017 to legalize the conduct of 'Kambala' and bullock cart races in Karnataka.
110. The Union Minister of State for Labour and Employment Bandaru Dattatreya launched the National Career Service (NCS) for youths and Jeevan Praman facility to EPFO pensioners through Post Offices at DakSadan in Hyderabad.
111. After transforming the lives of villagers in Puttamraju Kandriga in Andhra Pradesh, Indian cricket icon and Rajya Sabha MP Sachin Tendulkar is now set to adopt Donja in Osmanabad (Maharashtra) under the Sansad Adarsh Gram Yojna.
112. India's first cashless township "Gujarat Narmada Valley Fertilizers and Chemicals (GNFC) township" was inaugurated by Gujarat CM Vijay Rupani.
113. Union Government has decided to launch 'Indradhanush 2.0' for recapitalisation of public sector lenders so that the banks remain solvent and fully comply with the global capital adequacy norms namely Basel-III.
114. Indian Navy's survey class vessel INS Sarvekshak has become the first ship in India to be fitted with solar power system on board.
115. The Reliance Defence and Engineering Ltd (RDEL) has signed a Master Ship Repair Agreement (MSRA) with US Navy to perform repair and alteration services for US Navy's Seventh Fleet vessels.
116. India's leading agri and FMCG company Ruchi Soya Industries Ltd has signed an agreement with Baba Ramdev-promoted Patanjali Ayurved Ltd for physical refining and packaging of edible oils.
117. The world's longest elevated cycle path has been opened in Xiamen, China which can handle about 2,023 cyclists with a speed limit of 15 miles per hour.
118. Germany's former Foreign Minister, Frank-Walter Steinmeier has been elected as the new President of Germany. He will succeed incumbent President Joachim Gauck who will step down on March 18, 2017 at the age of 77.

- 119.**US, National Security Adviser Michael Flynn has resigned over his contacts with Russia. Mr Flynn is alleged to have discussed US sanctions with the Russian Ambassador before President Donald Trump took office.
- 120.**Netherland native Germaine de Randamie defeated Holly Holm (7-3) to claim the UFC Women's Featherweight Champion at the UFC 208 in Brooklyn, New York .
- 121.**The England and Wales Cricket Board named Joe Root as England's Test captain who will take over Alastair Cook.
- 122.**PSLV-C37 carrying CARTOSAT-2 series earth observation satellite and 103 nano satellites has lifted off from Sriharikota, Andhra Pradesh. India successfully launched record 104 satellites, including CARTOSAT-2 series weather observation satellite, in a single mission onboard PSLV-C37 rocket.
- 123.**Union Science and Technology Minister Harsh Vardhan will inaugurate the International Conference on NexGen Technologies for Mining and Fuel Industries in New Delhi .
- 124.**The International Coin Fair was inaugurated at Kanakakunnu Palace in Thiruvananthapuram, Kerala.
- 125.**Government has allocated an amount of Rs 500 crore to India Post Payments Bank for the financial year 2017-18 to help it in setting up 650 branches across country by September 2017.
- 126.**According to the global financial services major Nomura, the GDP growth of India is estimated to remain low at 5.7% in the January-March quarter due to the effect of demonetization of high value currency.
- 127.**The 'name and shame campaign' initiated by Catholic Syrian Bank Employees and Retirees against willful defaulters in Kerala.
- 128.**International Finance Corporation (IFC), part of the World Bank Group, has teamed up with Finance Industry Development Council (FIDC) to conduct training programmes for Non-Banking Finance Companies (NBFCs).
- 129.**Nilesh Shivji Vikamsey was elected as the new President of the Institute of Chartered Accountants of India (ICAI) for the year 2017-18.
- 130.**Pakistani Career diplomat Tehmina Janjua was appointed as the Foreign Secretary of Pakistan by Prime Minister Nawaz Sharif. She is the first women to be appointed on the post.
- 131.**Former correspondent of the Press Trust of India, T V Parasuram passed away. He was 93.
- 132.**Legendary American jazz singer Al Jarreau passed away in Los Angeles. He was 76.
- 133.**Australian cricketer Adam Voges has decided to retire from all formats of international cricket after playing his last match as captain of the team Prime Minister's XI against Sri Lanka in Canberra.
- 134.**Jehan Daruvala became the first ever Indian to claim the New Zealand Grand Prix in New Zealand.
- 135.**Mumbai based Kush Bhagat has been awarded the Candidate Master (CM) title by the World Chess Federation body, FIDE for his outstanding performance in Western Asian Youth Chess championship 2016 at UAE.
- 136.**Cabinet has approved merger of five subsidiary banks with State Bank of India. FM said, SBI will acquire State bank of Bikaner and Jaipur, State Bank of Hyderabad, State Bank of Mysore, State Bank of Patiala and State Bank of Travancore.
- 137.**Tamil Nadu Governor C Vidyasagar Rao appointed Edappadi K Palaniswami as chief minister after replacing of O panneerselvam.
- 138.**A two-day mega event of Global Investor Summit, branded as "Momentum Jharkhand" is kicked off at Khelgaon of Ranchi.
- 139.**Union Commerce and Industry Minister Nirmala Sitharaman and Martina Dalic, Deputy Prime Minister and Minister of the Economy, Republic of Croatia have signed an agreement to boost bilateral trade and enhance economic cooperation in Zagreb, Croatia.
- 140.**The five-day 'Indian Panorama Film Festival' being organised in Port Blair.
- 141.**During the recent CII partnership summit in AP, 12 MoUs were signed by the State Government with different companies for setting up 12 apparel units in the State entailing investment of Rs. 963 crores in all and generating 46,000 jobs.
- 142.**Jammu and Kashmir government launched the e-Prison project to enumerate jail inmates in the State, where numbers of detainees keep swelling during unrest.
- 143.**West Bengal CM Mamata Banerjee declared Kalimpong as the 21st district of West Bengal Kalimpong as separate district of West Bengal. The new district is from Darjeeling.
- 144.**The state government of MP decided to set up a tourism board. The decision to constitute the Tourism Board has been taken to encourage and promote Madhya Pradesh tourism nationally and internationally.
- 145.**India has become one of the nine members of the new 'Network for Improving Quality of Care for Maternal, Newborn and Child Health' that aims to improve the quality of care for new mothers and babies. The global health network is supported by World Health Organisation (WHO), UN International Children's Fund (Unicef) and other partners. Other member nations include, Bangladesh, A Cote d'Ivoire, Ethiopia, Ghana, Malawi, Nigeria, Tanzania and Uganda.
- 146.**The 2017 Cobra Gold Military Exercise kicked off at the Sattahip Royal Thai Marine Corps Base in Chonburi Province, Thailand. It is co-organized by Cobra Gold United States and Thailand.
- 147.**Japan's SoftBank Group Corp has agreed to buy Fortress Investment Group LLC for about \$3.3 billion, looking to add investment expertise as it prepares to launch the world's largest private equity fund.
- 148.**International Monetary Fund (IMF) launched its first fully integrated capacity development centre, South Asia Training and Technical Assistance Center (SARTTAC) in New

Delhi. It will help to assist the local member countries of South Asia including Bangladesh, Bhutan, India, Maldives, Nepal, and Sri Lanka.

- 149.** HDFC life launched a traditional life insurance plan 'Pragati' for low income group people. The plan has been designed especially to empower low income families by making the plan available at affordable rate to every person who has the desire to secure his family.
- 150.** Usain Bolt honored with 'Sportsman of the Year' Jamaica's sprinter Usain Bolt won the 'Sportsman of the Year' award at the Laureus World Awards or the 'Oscar of Sports' held in Monaco .
- 151.** Indian professional hockey player Sandeep Singh has been honored with an Honorary Doctorate Degree by Desh Bhagat University, a private educational institution in Amloh, Fatehgarh Sahib District of Punjab.
- 152.** The Left-handed opening batsman of Pakistan Nasir Jamshed has been provisionally suspended from all forms of cricket by the Pakistan Cricket Board (PCB) for violating its anti-corruption code.
- 153.** The Cabinet approved the signing of Air Services Agreement between India and Rwanda which will enable the airlines of the two countries to operate services in each others' territory.
- 154.** India has been ranked 143 out of 186 economies in the annual Index of Economic Freedom 2017 released by top US based Think Tank, The Heritage Foundation. Hong Kong, Singapore and New Zealand are the top three nations in the Index respectively.
- 155.** Science Express Climate Action Special (SECAS II) flagged off from Safdarjung Railway station in Delhi. The SECAS II will run till 8th September and culminate its journey at Gandhinagar. During its journey, the Science Express will cover over 19,000 kilometres, and will be exhibited at 68 stations across 20 states.
- 156.** Axiscades, an aerospace and defence technologies company and Virtual Reality Media, a Slovakian firm have signed an industrial cooperation agreement (ICA) at the Aero India 2017. Under the ICA, both companies will evaluate opportunities for full flight simulator for the aerospace and defence sector and to address the requirements for Russian platforms.
- 157.** India Vetiver Network (INVN) has been launched at Tamil Nadu Agricultural University. INVN is a not-for-profit scientific network to promote vetiver in India. Vetiver has worldwide application to tackle many environmental issues like soil erosion, mitigation of soil and water pollution.
- 158.** PSU Bharat Electronics Ltd (BEL) has unveiled a new communication radio for the Indian armed forces, called STARS-V Mk III, at the Aero India 2017 show.
- 159.** Ministry of External Affairs (MEA) spokesperson Vikas Swarup has been appointed the new High Commissioner to Canada.
- 160.** Kerala cabinet gave its in-principle approval for setting up a Greenfield Airport at pilgrim centre Sabarimala located at the Periyar Tiger Reserve in the Western Ghat mountain ranges of Pathanamthitta District, Kerala.
- 161.** Five Supreme Court judges took oath of office. With the swearing in of Justice Sanjay K Kaul, Justice Mohan Shantanagoudar, Justice S A Nazeer, Justice Navin Sinha and Justice Deepak Gupta, the total strength of the Supreme Court now stands at 28.
- 162.** The Union Minister of Agriculture and Farmers Welfare, Shri Radha Mohan Singh inaugurated the Indian Seed Congress 2017 in Kolkata. The theme of Seed Congress is "Seed of Joy".
- 163.** Punjab National Bank (PNB) has a new non-executive Chairman in Sunil Mehta.
- 164.** The Government has appointed Neelam Damodaran as Executive Director of Bank of India.
- 165.** United Nations Children's Fund (UNICEF) has launched a \$110 million appeal to help two million acutely malnourished children across Sudan including hundreds of thousands living in conflict areas.
- 166.** The Reserve Bank will start reimbursing MDR (Merchant Discount Rate) charges to banks for payments made since January 1 through debit cards by citizens, in line with the government's move to further digital solutions.
- 167.** Mumbai based Citi Bank has launched instant chat services for customers named Citibank Online (CBOL). With this India become the first country in Asia Pacific within the Citi network to have this kind of service.
- 168.** RBI increased the gold loan limit for RRBs (Regional Rural Banks) to Rs. 2 lakh from the current Rs 1 lakh to help the farmers and artisans have access to credit who are willing to pledge gold as collateral. The limit has been doubled for the loans not exceeding 12 months from the date of sanction.
- 169.** Tata Motors Ltd and Microsoft India entered into strategic agreement to collaborate on the technology front for making driving a more personalized experience for the customers. As per the agreement, Microsoft will make use of its IoT (internet of things), AI (artificial intelligence) and machine learning technologies to develop a highly personalized, smart vehicle for the customers.
- 170.** An Indian-origin Scotland Yard officer Shand Panesar along with his colleague Craig Nicholson was honored with the 2017 Outstanding Bravery of the Year Award in central London.
- 171.** India's premier health institute the All India Institutes of Medical Sciences (AIIMS), New Delhi was awarded the first prize of the Government's Kayakalp Award under the Central Government Hospitals category in New Delhi for maintaining high standards of sanitation and hygiene.
- 172.** International Basketball Federation (FIBA) has promoted Norman Isaac as the Technical Delegate (TD) of the sport's worldwide governing body. He has become the first Indian to be ever appointed to the post.
- 173.** Union Human Resource Development Ministry has stated

that to avail benefit under the Central Sector Scholarship Scheme for College and University students, applicants will now have to furnish proof of possession of Aadhaar card or undergo Aadhaar authentication.

- 174.** Eight Executive Directors (EDs) have been appointed in various public sector banks on the recommendations of Banks Board Bureau.
- 175.** Neelam Damodharan and Atanu Kumar Das have been appointed as EDs in Bank of India.
- 176.** K Swaminathan, has been appointed as ED in Indian Overseas Bank.
- 177.** Ashok Kumar Pradhan has been appointed as the ED in United Bank of India.
- 178.** P Ramana Murthy will be Executive Director of Central Bank of India.
- 179.** Fareed Ahmed Khan appointed as the ED in Punjab and Sind Bank.
- 180.** M K Bhattacharya appointed as the EDs of Indian Bank.
- 181.** S Harishankar has been appointed EDs of Allahabad Bank.
- 182.** The implementation of the regional air-connectivity scheme, UDAN, will see the number of operational airports in the country shoot up by over 50, while the cost of travelling will come down to as low as ₹2,500 for up to an hour of air journey. According to Sinha, there are 75 small operational airports in the country, and this number will increase to over 125 with the successful implementation of UDAN (Ude Desh ka Aam Nagrik).
- 183.** Lok Sabha Speaker Sumitra Mahajan inaugurated the two-day South Asian Speaker's summit at Indore in Madhya Pradesh. Speakers of six countries will deliberate on ways to achieve sustainable development goals.
- 184.** 11th biennial edition of the International Aerospace and Defence exhibition Aero India held at the Air Force Station, Yelahanka in Bengaluru.
- 185.** In Madhya Pradesh, 'Mil Banche' programme was held in all the primary and middle government schools. Chief Minister Shivraj Singh Chouhan, his minister colleagues, public representatives and other dignitaries took classes in these schools to motivate children.
- 186.** Union government has increased the Cash Credit (CC) limit for Micro, Small and Medium Enterprises (MSMEs) to 30% of turnover from the existing 20% to encourage them to conduct businesses digitally.
- 187.** Mangaluru based private sector lender Karnataka Bank Ltd launched National Pension System (NPS) at its corporate office in Mangaluru. To provide financial security at old age by giving regular income in the form of pension. Under the scheme, one can contribute to NPS while earning and eventually start receiving pension on his/her attaining the age of 60 years to meet their financial needs.
- 188.** Bangalore based Public sector Canara Bank has signed a Memorandum of Understanding (MoU) with the Human Resource Development (HRD) Ministry to operationalize the Higher Education Financing Agency (HEFA).
- 189.** Leading global payments and technology firm, Mastercard is set to provide payments processing solution to Airtel Payments Bank.
- 190.** Malaysia-based low-cost airline AirAsia has signed a Memorandum of Understanding (MoU) with the Odisha government to start two-way direct international flights from Bhubaneswar to Kuala Lumpur.
- 191.** South Indian Bank has been awarded with ISO 27001: 2013 certification for its Information Security Management System (ISMS).
- 192.** Mangalore based public sector lender Corporation Bank was awarded the 2017 National MSME Excellence Award at a function in New Delhi.
- 193.** Indian Space Research Organisation (ISRO) has successfully ground tested its indigenously developed Cryogenic Upper Stage engine for GSLV Mark III at its Liquid Propulsion Complex at Mahendragiri in Tirunelveli district of Tamil Nadu. The C25 stage is the most powerful upper stage developed by ISRO and uses Liquid Oxygen and Liquid Hydrogen propellant combination.
- 194.** Melody Queen Lata Mangeshkar has been honoured with the 'Legendary Award ' 2017 by Brand Laureate. The Brand Laureate Awards recognise world-class achievement in branding amongst individuals and companies.
- 195.** President Dr. Pranab Mukherjee has extended his greetings and felicitations to the Government and people of the Islamic Republic of The Gambia on the occasion of their Independence Day (18 February 2017).
- 196.** Renowned Hindi litterateur and playwright Surendra Verma has been selected for 2016 Vyas Samman for his novel Kaatna Shami Ka Vriksha Padma Pankhuri Ki Dhar Se.
- 197.** National Regulatory Authority of India (NRAI) has been given the maximum ratings by the World Health Organisation for vaccine regulations. India, as a large vaccine producing country, is currently supplying several vaccines to the UN agencies (UNICEF, WHO and PAHO)
- 198.** Raytheon Company has signed a memorandum of understanding (MoU) with Tata Advanced Systems Ltd (TASL) to engage in the co-production of Stinger air defence missile components.
- 199.** Odisha based National Aluminium Company Limited (NALCO) has signed Memorandum of Understanding (MoU) with The Energy and Resources Institute (TERI) in New Delhi. Objective of the agreement is to Scientific, technological and educational activities in the area of mining rehabilitation.
- 200.** Leading professional services firm JLL has once again been named to FORTUNE magazine's World's Most Admired Companies list of 2017 based on their reputation for innovation, top talent and global competitiveness.
- 201.** Havells India has announced to acquire Lloyd Electric & Engineering for its consumer durables business for around Rs 1200 -1500 crore.
- 202.** Former MP Jambuvantrao Dhote died this morning in

Yavatmal of Maharashtra due to heart attack. The 83 year old leader was known for his demands of a separate state for Vidarbha.

- 203.** Indian ace shuttler PV Sindhu achieved her career best Badminton World Federation (BWF) women's single ranking by being placed at 5th spot. The only second Indian to be placed among the top 10 spots is Saina Nehwal who has placed at No. 9. Topped by Tai Tzu Ying of the Chinese Taipei.
- 204.** Jharkhand government and Microsoft India has inked an MoU for the state government to explore cloud, machine learning and mobile based solutions to improve citizen services and provide better facilities in the fields of education and agriculture.
- 205.** The Indian Women's team won a silver after getting defeated by South Korea, at the Asian Rugby Sevens Trophy tournament at Vientiane, Laos.
- 206.** The Indian Navy's second sailboat 'Tarini' was inducted into service at a ceremony in Goa.
- 207.** RP Shah, one of the three General Managers of BCCI, resigned from his post citing his age as a "reason".
- 208.** Savings accounts holders will now be able to withdraw up to Rs. 50,000 per week. The limits on cash withdrawals from savings bank account will be withdrawn completely from March 13, 2017.
- 209.** Prime Minister Narendra Modi has greeted people of Arunachal Pradesh and Mizoram on their 31st statehood day (20 February 2017).
- 210.** Ending more than two weeks of standoff with Nagaland Tribes Action Committee (NTAC), Nagaland chief minister TR Zeliang resigned from his post.
- 211.** India has sanctioned a soft loan of 340 million US dollar to Nepal for various infrastructure development programmes.
- 212.** On the occasion of the 75th Foundation Day, Oriental Bank of Commerce (OBC) has come up with several digital offerings including launch of mobile wallet 'Oriental Batuaa'. It has also launched **two MSME schemes** which are 'Oriental Sanjeevani' and 'Oriental Budget Hotels and Restaurants'.
- 213.** Karnataka Bank Ltd has entered into a memorandum of understanding (MoU) with Daimler India Commercial Vehicles Pvt Ltd (DICV) for extending finance to customers for the purchase of commercial vehicles manufactured by the company.
- 214.** IRB InvIT Fund, an investment trust sponsored by IRB Infrastructure Developers, has received markets regulator SEBI's approval to raise Rs. 4,300 crore through initial public offering.
- 215.** AirAsia became the first foreign airline to begin its operations from Srinagar international airport in Jammu and Kashmir.
- 216.** Microsoft announced a strategic partnership with Flipkart, wherein as a first step, the online retailer will adopt Microsoft Azure as its exclusive public cloud platform. The strategic partnership was aimed at providing consumers in the country the best online shopping service.
- 217.** T C A Ranganathan and Sunil Mehta were appointed as Non-Official Directors in Indian Overseas Bank and Punjab National Bank by the Appointments Committee of Cabinet. Both appointed for a period of three years.
- 218.** Indian Cinema movie Newton directed by Amit Masurkar was honored with the Art Cinema Award in the Forum Segment at the 67th Berlin International Film Festival held in Berlin, Germany.
- 219.** In a bid to boost its prospects in the world of artificial intelligence (AI), Apple has acquired Israel-based start-up RealFace that develops deep learning-based face authentication technology.
- 220.** An actor turned politician Hema Malini's journey from an actor and filmmaker to a politician being chronicled as an authorised biography titled 'Hema Malini: Beyond the Dream Girl'. The biography is written by author-columnist Ram Kamal Mukherjee.
- 221.** Former Chief Justice of India Altamas Kabir passed away at a city hospital, recently. He was 68.
- 222.** Virat Kohli became the first Indian sports personality to strike a Rs 100-crore endorsement deal with a single brand. Kohli signed an eight-year deal with sports apparel brand Puma worth Rs 110 crore.
- 223.** Following the path of Indian boxing sensation Vijender Singh, Olympic quarterfinalists boxers Akhil Kumar and Jitender Kumar are also stepping up to enter professional boxing. They signed a multi-year deal with IOS Boxing Promotions confirming turning professional boxers.
- 224.** Afghanistan cricket broke a new barrier when Mohammad Nabi and Rashid Khan became the first from the war-torn nation to be picked in the Indian Premier League (IPL) auction.
- 225.** Pakistan all-rounder Shahid Afridi has announced his retirement from international cricket.
- 226.** Bharat QR code, the world's first inter-operable payment acceptance solution, was launched as part of efforts to move towards less-cash economy at an insignificant cost, according to RBI. Payment networks such as MasterCard and Visa have joined hands with NPCI to launch Bharat QR, a common Quick Response (QR) code that would enable seamless digital payments without card swiping machines.
- 227.** UNESCO celebrates International Mother Language Day (IMLD) on February 21, 2017 under the theme "Towards Sustainable Futures through Multilingual Education".
- 228.** Cash purchases of jewellery will attract 1% TCS (Tax Collected at Source) from April 1, 2017 if the amount exceeds Rs 2 lakh, as against the current threshold of Rs 5 lakh.
- 229.** According to a report released by Stockholm International Peace Research Institute (SIPRI) India emerged as the world's largest importer of major arms during 2012-16.
- 230.** Country's largest lender State Bank of India (SBI) has

rebranded its corporate website as "bank.sbi" from the earlier sbi.co.in. Bank.sbi is the highest domain protocol, known as generic top level domain (gTLD).

- 231.** Nagaland People's Front (NPF) president Shurhozelie Liezeitsu will be sworn in as the state's eleventh Chief Minister.
- 232.** The Ahmedabad-based Entrepreneurship Development Institute of India (EDII), an acknowledged national resource institute for entrepreneurship education, research, training and institution-building, has received the prestigious International Mercury Awards (IMA) for the year 2016-17.
- 233.** Tata Steel's Katamati iron mine has been honoured with the Best Green Organisation of the Year Award at the Global Green Future Leadership Awards in recognition of its environmental protection measures.
- 234.** Tata Sons Chairman designate Natarajan Chandrasekaran will also hold the chairmanship of the group's crown jewel Tata Consultancy Services. The country's largest software services provider has also named V Ramakrishnan as its Chief Financial Officer to succeed Rajesh Gopinathan, who will take over as the CEO and MD of the Tata Group company.
- 235.** Russia will start initial deliveries of military helicopters to India in 2018, with assembly and manufacturing to follow in Asia's fastest growing economy.
- 236.** US President Donald Trump has appointed Lt Gen Herbert Raymond McMaster as his new National Security Advisor following the ouster of Michael Flynn.
- 237.** The California-based SpaceX onboard its Falcon 9 rocket launched a robotic Dragon cargo ship with about 5,500 pounds (2,500 kg) of supplies and science experiments toward the International Space Station.
- 238.** V. K. Srinivasan, noted bureaucrat, columnist and director of the Institute of Economic Studies passed away after a prolonged illness in Hyderabad.
- 239.** Famous Hindi novelist Ved Prakash Sharma was passed away in Meerut, Uttar Pradesh. He was 62.
- 240.** Union Health Secretary C.K. Mishra has launched "Saathiya Resource Kits" that will provide information on adolescent related issues such as puberty and mental health, among others.
- 241.** The first heliport in India will be inaugurated by Civil Aviation Minister Ashok Gajapathi Raju in North Delhi. The heliport, built by state-owned Pawan Hans.
- 242.** At a time when cyber-attacks are increasing, Union Minister of Electronics and IT Ravi Shankar Prasad launched Cyber Swachhta Kendra in New Delhi for Botnet cleaning and Malware analysis as a part of digital India initiative. He also launched two mobile apps. Mkavach to protect smart phones and tablets from hackers. Samvid to protect Desktops from suspicious applications from running.
- 243.** India and China will hold their first Strategic Dialogue in Beijing. The two sides are expected to discuss all issues of mutual concern and interest including friction points.
- 244.** The Gujarat Assembly passed Aadhaar (Targeted Delivery of Financial and Other Subsidies, Benefits and Services) Bill, 2017 to empower the state government to use Aadhaar number as the sole identifier for the delivery of various subsidies and benefits in an effective and targeted manner.
- 245.** Arunachal Pradesh Chief Minister Pema Khandu in the presence of Union Minister of State for Home Affairs Kiren Rijiju inaugurated the Composite Regional Centre at Itanagar Banquet Hall, Arunachal Pradesh. The center is formed to create resources and infrastructure required for developing services for persons with disabilities with an outlay of Rs.20 Crore.
- 246.** Cabinet Committee on Economic Affairs, CCEA has approved investment proposal for generation component of Arun-3 Hydro Electric Project in Nepal by SJVN Limited.
- 247.** J & K Chief Minister Mehbooba Mufti has declared 2017 as 'Year of Apple' to promote the famed Kashmiri apples in domestic and foreign markets.
- 248.** Small Industries Development Bank of India (SIDBI) has signed a Memorandum of Understanding (MoU) with Vijaya Bank for providing concessional finance to micro and small enterprises (MSEs). The MoU aims at promoting and strengthening units in the MSE segment through concessional funding.
- 249.** Union Railway Minister Suresh Prabhu commissioned the fourth ship of Indian Coast Guard named 'Shaunak', in the series of six offshore patrol vessels (OPV) in Vasco, located in South Goa.
- 250.** Azerbaijan's President Ilham Aliyev appointed his wife Mehriban Aliyev as the First Vice President of the country.
- 251.** Direct-to-home operator Dish TV joined hands with India's largest private sector lender ICICI bank for digital payments.
- 252.** For the first time, Confederation of Indian Industry (CII) has signed a Technology Partnership MoU with two Singapore agencies International Enterprise (IE) Singapore and the Singapore Business Federation (SBF) to promote expertise in expanding businesses.
- 253.** Justice Abhay Manohar Sapre has been appointed the chairman of Cauvery Water Disputes Tribunal (CWDT).
- 254.** A zip line connecting Spain and Portugal, is known to be the first cross-border zip line in the world. The 720-metre-long zip line joins the two countries, allowing people to reach Portugal within a minute.
- 255.** American professional golfer Dustin Hunter Johnson has claimed No 1 Position in Official World Golf Ranking for the first time in his career.
- 256.** Cabinet approves MoU between India and Australia for promotion and development of cooperation in civil aviation security.
- 257.** Cabinet approves signing of an Agreement between India and Poland on cooperation in the field of agriculture and

allied sectors.

- 258.** India's growth is projected to slow to 6.6% in 2016-17 fiscal due to the strains that have emerged in the economy as a result of temporary disruptions caused by demonetization. The government has allowed women working in industries to take six months maternity leave pre-empting parliamentary approval on the maternity benefit amendment bill that is pending in the Lok Sabha.
- 259.** Third National Biodiversity Congress (NBC) 2017 held in Thiruvananthapuram, Kerala. Theme of National Biodiversity Congress 2017 is "Mainstreaming Biodiversity for Sustainable Development".
- 260.** The economy based on the gross value added (GVA) is set to slip to 6.2% in the December quarter and GDP growth will decline to 6.5% from 7.2%, stated by domestic rating agency information and credit rating agency (ICRA).
- 261.** The country's largest telecom services provider, Bharti Airtel (Airtel) has officially announced that it will acquire Telenor India.
- 262.** Karnataka Bank has bagged two 'IBA-Banking Technology' awards. The bank was the winner in 'Best financial inclusion initiatives (small bank)' category, and was runner-up in 'Best use of digital and channels technology (small bank)' category.
- 263.** Hyderabad based non-banking finance company Microfinance institution Bharat Financial Inclusion Ltd launched an instant loan approval at a village near Bassi in Jaipur district, Rajasthan. The objective of this initiative to help rural areas embrace cashless transactions.
- 264.** The National Association of Software and Services Companies (NASSCOM) has signed a Memorandum of Understanding (MoU) with the IoT Acceleration Consortium (ITAC) Japan. To collaborate to address digital technology shifts and accelerate IoT (Internet of Things) adoption at a global level across the industry.
- 265.** Airports Authority of India, along with International Air Transport Association (IATA) launched its e-billing solution, SKYREV360 for airport operators and air navigation services providers across the world.
- 266.** N Chandrasekaran elected chairman of Indian Hotels
- 267.** The chief executive officer of Jasper Infotech-owned digital payments platform FreeCharge, Govind Rajan has submitted his resigned.
- 268.** Railway Minister Suresh Prabhu unveiled Antyodaya Express for common man Equipped with cushioned seats, aluminium composite panels, and LED lights. The first Antyodaya Express will be launched between Mumbai and Tatanagar.
- 269.** Astronomers of NASA have discovered seven Earth-sized planets orbiting a star called TRAPPIST-1.
- 270.** Russia's ambassador to the United Nations, Vitaly Churkin has died in New York City. He was 64.
- 271.** India's one day captain Mithali Raj and Harmanpreet Kaur were placed 2nd and 10th in the ICC batswomen's rankings released after the World Cup qualifier that ended recently. Meg Lanning of Australia leads the charts.
- 272.** German Sportswear giant Adidas announced its ties up with FIFA U-17 World Cup Local Organizing Committee for the Mission XI Million programme.
- 273.** The National Rifle Association of India (NRAI) announced that India will be hosting the Combined World Cup for shooting in 2019 during the meeting held in New Delhi.
- 274.** The ninth BRICS Summit will be held in China's Xiamen city from September 3 to 5, 2017. The theme of this year's event is 'BRICS: Stronger Partnership for a Brighter Future'. India signed an agreement with Japan on enhancing railway safety in the Indian Railways with focus on railway track and rolling stock safety.
- 275.** The Central Board of Excise and Customs (CBEC) celebrated 74th Central Excise Day on 24th February in New Delhi.
- 276.** The Center and state of Sikkim has signed a Memorandum of Understanding (MoU) under the Ujwal DISCOM Assurance Yojana (UDAY) for operational improvement of the state's power distribution department. With the signing of the MoU, the total number of states covered under UDAY has reached 22.
- 277.** Global payments network Visa signed a memorandum of understanding (MoU) with the Andhra Pradesh government to help transform Vishakhapatnam into India's first 'less cash' city.
- 278.** Kerala government will launch the country's first sex offenders' registry which will contain all identification details of sex offenders and would be kept in public domain.
- 279.** Haryana based Oriental Bank of Commerce has signed a corporate agency agreement with Chennai based general insurance provider Cholamandalam General Insurance Company for distribution of insurance products.
- 280.** Tata Power Renewable Energy Ltd has synchronised its 15 MW solar plant at Bellampally in Telangana, thereby taking the Tata Power's total installed operating capacity past 10,500 MW mark.
- 281.** China for the first time became Germany's most important trading partner in 2016, overtaking the United States, which fell back to third place behind France in the data shown recently.
- 282.** Nobel-winning economist, mathematician Kenneth J Arrow has died in USA . He was 95.
- 283.** Premier off-spinner Ravichandran Ashwin, broked Kapil Dev's Indian record of most Test wickets in a domestic season.

CURRENT AFFAIRS ZINGER : JANUARY 2017**1ST TO 15TH JANUARY 2017**

1. Recently Railway Minister Suresh Prabhu has laid the foundation of Nadikudi-Srikalahasti railway project and initiated several other development works in _____.
2. The soon to be released book titled "Khullam Khulla" is the autobiography of-
3. Name the app, which has launched by PM Narendra Modi to facilitate digital cash transactions with only a thumb print after the bank account is linked with Aadhaar gateway.
4. Who has been appointed as the New Prime Minister of Romania?
5. Name the Chess Player, who has won all three gold medals in Western Asia youth chess championship 2016?
6. Who has taken charge as the new Chief of Army Staff recently?
7. Which state government has sanctioned disbursement of two crore rupees for the district-level sports complexes for which Sports training department of every district will be disbursing the funds?
8. Which of the following Public Sector Banks(PSBs) has tied up with online classifieds portal magicbricks.com, to conduct joint marketing activities and help rejuvenate the real estate sector?
9. An Indian-origin Saudi-based entrepreneur Shaikh Rafik Mohammed, who hails from Kerala has been appointed Major General of _____, a rare military position occupied by an Indian in the Central Asian country.
10. Name the Indian- origin British professor of chemistry and DNA expert at Cambridge University, who has received a Knighthood along with Olympic stars Andy Murray and Mo Farah.
11. Which state has emerged as the India's first fully organic state in 2016 by converting around 75,000 hectares of agricultural land into sustainable cultivation?
12. Who has took charge as the UN Secretary General, making a strong appeal to the international community to strive for peace in 2017?
13. What is the full form of BHIM?
14. India's star singles player _____ has announced his retirement from professional tennis, bringing an abrupt end to what was once a promising career recently.
15. The NRI citizens of India, who were abroad from November 09th to December 30th 2016, can exchange their defunct notes up to?
16. In which states India's first laser technology-based advanced AVMS RTO is installed, recently?
17. The Supreme Court has removed BCCI President _____ from their posts.
18. Senior citizens will now be assured what per cent interest on their deposits up to Rs 7.5 lakh which will remain the same for next 10 years?
19. India's largest LNG importer Petronet has signed an agreement to set up a \$950 million liquefied natural gas import project in which country?
20. Under a scheme for pregnant women, the would-be mothers will get how much amount for their delivery, vaccination, and nutritious meals directly in their accounts?
21. The government has announced to pay interest for _____ on loans taken by farmers for rabi season from district cooperative banks and primary societies.
22. Who is present Chairman and Managing Director (CMD) of NHPC?
23. Which country has become the first country in the world to pay a basic income to randomly picked citizens on a national level?
24. Name the Karnataka Minister for cooperation and Sugar, who has been passed away recently due to cardiac arrest?
25. Table tennis Olympic champion Li Xiaoxia has announced her retirement recently. She is belongs to which country?
26. Who has been appointed as the Chairman of the Union Public Service Commission (UPSC)?
27. India has ranked third among the countries offering the highest average annual salary to expatriates, according to HSBC Holdings data. Which country has ranked highest in the world to average annual salary?
28. In which city PM Narendra Modi has inaugurated the five-day annual Indian Science Congress, recently?
29. Which E-commerce companies has been awarded a patent for launching a giant flying warehouse that would acts as a launch pad for drones to deliver items within minutes?
30. The 13th edition of Nepal's five-day Chitwan Elephant Festival has kicked off in _____ with the participation of over 50 elephants.
31. Which company has created two tools My Business and Digital Unlocked for the small and medium businesses in India, that would help to create an online presence, besides a digital training programme.
32. The _____ ambassador to the European Union Ivan Rogers has resigned from his post recently.
33. Which country has defeated Bangladesh 3-1 to win their fourth consecutive South Asian Football Federation (SAFF) Women's Football Championship title in Siliguri, West Bengal?
34. _____ has launched a health scheme, Arogya Raksha Scheme Tummalapalli Kalakshetram for the people of the Above Poverty Line at Rs 1200 premium per annum.
35. Who has been appointed as Executive Director (ED) of Reserve Bank of India (RBI) recently?
36. Solar power producer Azure Power has commissioned 150 MW solar power project in _____, which is its largest in North India.
37. Who has been elected as the President of Haiti recently?

38. Nine-member government panel formed to make recommendations for bringing out a comprehensive National Sports Development Code across all disciplines. This committee headed by.....?
39. Mobile commerce and payments company Paytm has got the final permission to open a payments bank by Reserve Bank of India (RBI). Payments bank will initially be restricted to holding a maximum balance of how much amount per individual customer?
40. Arthur Robert Morris has become 82nd player inducted into the ICC Cricket Hall of Fame, recently. Arthur Robert Morris was a/an_____ cricketer who played 46 Test matches between 1946 and 1955.
41. Which private sector banks has entered into a tie-up with Bajaj Electricals for vendor financing using blockchain solution, and announced to use the technology more aggressively as it saves over 70% in cost recently?
42. For the benefit of voters, candidates, election staff as well as the Election Commission of India (ECI), the district administration of Ludhiana has developed a mobile application named.....?
43. Which state government has announced a new scheme to provide financial assistance of one thousand rupees per month each to single women in the state recently?
44. The Munich Re is opening a composite branch office in Mumbai. This world's leading reinsurer is based in-
45. Name the veteran actor, who gave countless memorable performances in movies of diverse genres, died at his residence in Mumbai recently?
46. Name the Insurance Company, which has been tied up with Small Industries Development Bank of India (SIDBI) for augmenting capital support to enterprises in the country?
47. Which private sector banks has launched a month-long campaign to promote a group personal accident insurance scheme for savings bank account-holders?
48. Who has been appointed as the Chairman of Tata Power after the resignation of Cyrus Mistry?
49. IBM has appointed _____ as Managing Director of IBM India Pvt Ltd, succeeding Vanitha Narayanan who has been appointed as chairman of the Indian subsidiary.
50. Renowned _____ Abdul Halim Jaffer Khan died due to cardiac arrest.
51. Vice President Hamid Ansari has released a book titled 'The People's President: Dr APJ Abdul Kalam'. Who is the author of this book (The People's President: Dr APJ Abdul Kalam)?
52. Who has been appointed as the Britain's new ambassador to the European Union (EU) recently?
53. A telecommunication technology test satellite has successfully test fired by _____ from the Xichang Satellite Launch Centre recently?
54. Japan has temporarily withdrawn its Ambassador to which of the following countries recently, amid an escalating row over a statue representing wartime sex slaves?
55. The Gross Domestic Product (GDP) growth is estimated at _____ in 2016-17 as per the data released recently by the Central Statistics Office (CSO).
56. The 14th Pravasi Bhartiya Divas (PBD) convention has begun in Bengaluru, Karnataka. The three-day event has kicked start with the Youth PBD, the theme of 14th PBD is-
57. Which country has launched the longest high-speed train service named 'Shangri-la of the World'?
58. Which country has decided to development of Chennai, Ahmedabad and Varanasi as smart cities recently?
59. In which city, the All India Conference of Chairpersons and Chief Executive Officers of States and Union Territories' Waqf Boards has held?
60. Name the country, which is setting up the world's highest altitude gravitational wave telescopes in a Tibet prefecture close to Line of Actual Control with India with a budget of \$18.8 million.
61. Droom has tied up with _____ India's third-largest private sector bank, to provide quick sanction of loans on both new as well as used cars.
62. Prime Minister Narendra Modi and his Portuguese counterpart _____ has inaugurated the main convention of Pravasi Bhartiya Divas (PBD) in Bengaluru.
63. US President-elect Donald Trump has named _____ as his National Intelligence Director.
64. Who has won the Qatar Open tennis title. In an epic final in Doha, the Serbian defeated Andy Murray of UK by 6-3 5-7 6-4 recently?
65. The GAAR, will kick in from April 1, 2017 said the Central Board for Direct Taxes (CBDT). What is GAAR stands for?
66. Former President Akbar Hashemi Rafsanjani has passed away recently. Akbar Hashemi Rafsanjani was former president of which country?
67. Indian tennis ace Sania Mirza won the 2017 Brisbane International women's doubles title recently with her partner
68. According to growth projection released by the Central Statistics Office (CSO), agriculture, forestry and fishing sector is likely to show a growth of ____ during 2016-17.
69. Who has been appointed as the MD & CEO of SBI Pension Funds Pvt Ltd, recently?
70. Which state government has come up with India's first student startup and innovation policy, which aims to provide Rs 200 crore in the form of grants to ideas developed by them?
71. In which city, the Power Minister Piyush Goyal has unveiled world's largest street light replacement program, recently?
72. Who among the following has won the men's singles title of the 2017 Chennai Open?
73. Name the person, who has given an award by the US Embassy in appreciation for his invaluable contributions to the US-India partnership on tuberculosis recently?
74. Who has been named as the Coach of the Year at the FIFA Football Awards 2016 in Zurich, Switzerland.
75. Who has been appointed as the new CEO of Flipkart after

replacing co-founder Binny Bansal?

76. The 74th Annual Golden Globe Awards ceremony was organized at Beverly Hills, California, United States (USA). which movie has won the Best Motion Picture Drama Award?
77. Name the cricket player, who has roped as the brand ambassador of Gionee?
78. Veteran British war correspondent _____, who broke the news of the Nazi invasion of Poland, has died in Hong Kong at the age of 105.
79. The World Bank has decelerated India's growth for 2016-17 fiscal to how much percent from its previous estimate of 7.6 percent?
80. In which city, Prime Minister Narendra Modi has inaugurated the 'The Nobel Prize' exhibition recently?
81. The US fast-food giant McDonald announced to sell its businesses in which country recently for \$2.08 bn to Citic and the Carlyle Group?
82. Former wrestler and coach Mahavir Singh Phogat made his way to the launch of his authorised biography _____ in Chandigarh.
83. The Federation Internationale de Football Association (FIFA) has decided that the World Cup will be expanded to host 48 teams, up from 32. Where is the headquarter of FIFA?
84. Which country has called for partnership between India, Pakistan and Afghanistan on counter-terrorism operations recently?
85. Gymnast Yana Kudryavtseva has retired from competition aged just 19, Kudryavtseva won 13 world championships from 2013 to 2015. She belongs to which country?
86. Which country has successfully sent three satellites into space in its first commercial mission using an updated version of the low-cost Kuaizhou-1A rocket?
87. Who has been appointed as the new director of West Indies cricket team?
88. India has announced how much Line of Credit to Kenya for agricultural mechanisation after talks between Prime Minister Narendra Modi and Kenyan President Uhuru Kenyatta?
89. BIS has revised Indian Standard on gold hall marking. The hallmarked gold jewellery will now be available in three grades of 14 carat, 18 carat and 22 carat. BIS stands for?
90. Who among the following has been appointed as the new chairman of Tata Group recently?
91. The Government of India has increased the minimum monthly pension to _____ per person, besides a two-fold hike in exgratia amount for central government employees.
92. Which of the following companies has signed a non-binding MoU with Rajasthan Rajya Vidyut Utpadan Nigam Ltd and Rajasthan Urja Vikas Nigam Ltd for takeover of Chhabra Thermal Power Plant Stage-I?
93. Who has been appointed as Maharashtra Cricket Association (MCA) president, recently?
94. In which city, the world's first 'Gender Literature Festival' is scheduled to be held in the second week of April, 2017?
95. National Institution for Transforming India (NITI) Aayog has projected the India GDP growth rate of 8% for 2016-17 based on the appraisal document for the Twelfth Five-Year Plan. Who is present chairperson of NITI Aayog?
96. India's first payments bank Airtel Payments Bank is giving how much percent interest on savings accounts, which makes it the highest interest rate on offer?
97. The govt. will sell its entire 51% stake and transfer the management control of the helicopter service operator Pawan Hans. It is a joint venture where _____ holds 49%.
98. Which state has inaugurated the first solar-powered boat of the state water transport department, Aditya?
99. India is all set to get its first wax museum in June 2017 Unveils Wax Figures Of Actor Amitabh Bachchan, Lady Gaga in-
100. Which of the following countries has taken over from Thailand as chair of the Group of 77 which promotes the interests of the 134 developing countries it represents at the United Nations, including China?
101. Name the Company, which has sells land parcel to Wadhwa Group for Rs. 190 crore?
102. Airtel Payments Bank the first payments bank started its nationwide operations recently, with an initial investment of-
103. The United States has announced the end of a 20-year economic embargo on _____, lifting trade and financial sanctions in an effort to foster ties with the Sudanese government.

Answer:

- | | | |
|-----------------------------|--------------------------------|------------------------------|
| 1. Andhra Pradesh | 11. Sikkim | 22. KM Singh |
| 2. Rishi Kapoor | 12. Antonio Guterres | 23. Finland |
| 3. BHIM | 13. Bharat Interface for Money | 24. H S Mahadeva Prasad |
| 4. Sorin Grindeanu | 14. Somdev Devvarman | 25. China |
| 5. Kush Bhagat | 15. June 30th, 2017 | 26. David R Syiemlieh |
| 6. General Bipin Rawat | 16. Gujarat | 27. Switzerland |
| 7. Maharashtra | 17. Anurag Thakur | 28. Tirupati, Andhra Pradesh |
| 8. State Bank of India | 18. 8 per cent | 29. Amazon |
| 9. Kyrgyzstan | 19. Bangladesh | 30. Kathmandu |
| 10. Shankar Balasubramanian | 20. Rs 6,000 | 31. Google India |
| | 21. 60 days | 32. UK |

- | | | |
|---|---|--------------------------------|
| 33. India | 56. Role of Diaspora Youth in the Transformation of India | 80. Ahmedabad |
| 34. Andhra Pradesh | 57. China | 81. China |
| 35. Surekha Marandi | 58. Japan | 82. Akhada |
| 36. Punjab | 59. New Delhi | 83. Zurich, Switzerland |
| 37. Jovenel Moise | 60. China | 84. USA |
| 38. Injeti Srinivas | 61. Axis Bank | 85. Russia |
| 39. Rs 100,000 per individual customer | 62. Dr Antonio Costa | 86. China |
| 40. Australian | 63. Dan Coats | 87. Jimmy Adams |
| 41. Yes Bank | 64. Novak Djokovic | 88. \$100 million |
| 42. ECI360 | 65. General Anti-Avoidance Rule | 89. Bureau of Indian Standards |
| 43. Telangana | 66. Iran | 90. N Chandrasekaran |
| 44. Germany | 67. Bethanie Mattek-Sands | 91. Rs.9,000 |
| 45. Om Puri | 68. 4.1% | 92. NTPC |
| 46. Life Insurance Corporation of India (LIC) | 69. Kumar Sharadindu | 93. Ashish Shelar |
| 47. Karnataka Bank | 70. Gujarat | 94. Patna |
| 48. S Padmanabhan | 71. New Delhi | 95. Narendra Modi |
| 49. Karan Bajwa | 72. Roberto Bautista Agut | 96. 07.25% |
| 50. Sitar maestro | 73. Amitabh Bachchan | 97. ONGC |
| 51. SM Khan | 74. Claudio Ranieri | 98. Kerala |
| 52. Sir Tim Barrow | 75. Kalyan Krishnamurthy | 99. New Delhi |
| 53. China | 76. Moonlight | 100. Ecuador |
| 54. South Korea | 77. Virat Kohli | 101. Pepsico |
| 55. 7.1 per cent | 78. Clare Hollingworth | 102. Rs.3000 Crore |
| | 79. 7.0 percent | 103. Sudan |

16th TO 31st JANUARY 2017

- 69th Army Day has been observed on 15th January 2017. The day marks the taking over of the Indian Army by the first Indian Commander-in-Chief, Field Marshal KM Cariappa, on-
- Which state has won their first ever Ranji Trophy title beating Mumbai by five wickets in the final at the Holkar stadium in Indore?
- The 'Falcon 9' is a family of two-stage-to-orbit launch vehicles which is designed and manufactured by
- In which city of Rajasthan, the two-day annual camel festival has began with much fanfare in the presence of foreigners and domestic tourists?
- The first of its kind scheme of the country, Digital Dakiya or Digital Postman, was inaugurated recently in which state to encourage cashless transactions
- Who was honoured with the Lifetime Achievement Award at the 62nd Filmfare Awards 2017?
- Securities and Exchange Board of India (SEBI) has decided to lower broker fees by 25 per cent to _____ per transaction of one crore rupees as part of calibration of various other fees collected by the regulator from different market intermediaries.
- Which film has won the Best Film award at the 62nd Jio Filmfare Awards?
- Name the former Chief Minister of Punjab, who was passed away recently?
- The first edition of Asia-Pacific Broadcasting Union (ABU) International Television Dance Festival has been held in-
- Name the Operation, which has been launched by Border Security Force (BSF) at the western international border of Rajasthan, recently?
- Who will take charge as interim CEO of the public broadcaster Prasar Bharti in February 2017?
- Name the app, which has been launched by Tamil Nadu government for tourism?
- India has slipped 3 places to 92nd rank on the global index of talent competitiveness that measures how countries grow, attract and retain talent. Which country has topped on the global index of talent competitiveness?
- The Supreme Court has given permission to a woman in her _____ week of pregnancy to undergo termination of pregnancy after medical report finds foetus is without skull.
- India has signed a financing agreement with the World Bank for how much US dollars for Nagaland Health Project?
- In which state Sadguru Sri Thyagaraja Aradhana festival has been observed every year?
- Name the Corporation, which has declared as the first Elderly-Friendly Corporation in Kerala?
- Name the person, who known for his movie "Limit to Freedom" has won a National award in 1996 under the category of best investigative film, has passed away recently?
- The International Monetary Fund (IMF) has cut India's economic growth rate forecast for 2016-17 to-
- Which country has sold two naval ships to Pakistan to protect the strategic Gwadar port and trade routes under


- the USD 46 billion?
22. SEBI has tightened the norms associated to Mergers and Acquisitions (M&A) of Indian companies. The public shareholding of the resultant entity created by the merger of an unlisted and a listed company has to be more than.....?
 23. The government has launched a mobile app called 'SEZ India' that provides detailed information about the country's SEZs. The term SEZs stands for-
 24. Who has won The Hindu Prize 2016 at the 07th edition of The Hindu Lit for Life festival 2017 held in Chennai?
 25. Who has been newly appointed by Mercedes after the replacement of Nico Rosberg from the F1 race, recently?
 26. Karang, a small lake island has become the country's first cashless island. Karang island is located at which state?
 27. In which city, the 58th edition of India International Garment Fair (IIGF) has been organised?
 28. India has been ranked at 60th position among 79 developing economies with a score of only 3.38 in the Inclusive Development Index (IDI) of the World Economic Forum (WEF). The list has been topped by which country?
 29. Which telecom company has announced mobile TV service 'Ditto TV' and limited fixed mobile telephony, an app that virtually turns mobiles into cordless phone working in sync with landlines within home premises?
 30. Name the Veteran actress, who was the wife of renowned filmmaker Mrinal Sen has passed away recently?
 31. Indian passport has been ranked a lowly 78 in a global ranking of the world's most powerful passports which was topped by-
 32. Which state government has allowed to the sale of white kerosene in open market recently?
 33. Who has been appointed as the president of European Parliament?
 34. Who has been inducted into Legends Club 'Hall of Fame' at the Cricket Club of India recently?
 35. Which Bank and India Post Payments Bank (IPPB) have signed MoU, whereby bank will provide a technology platform for the pilot launch of IPPB on receipt of regulatory nod from the Reserve Bank of India?
 36. Which bank has launched the industry's first customizable savings account which will protect customers from "unwanted charges" levied in current offerings?
 37. The campaign named 'Saksham 2017' inaugurated in Nagaland recently is aimed at conservation of-
 38. President Pranab Mukherjee has inaugurated the _____ Dantan Gramin Mela in West Midnapore district in West Bengal.
 39. Cabinet has approved an MoU between India and Serbia for cooperation in the field of Information Technology and Electronics. Where is the capital of Serbia?
 40. Which state government has launched Aanandam program of the newly-formed Anand Department?
 41. Mawlynnong village in _____ has become a role model for other states in maintaining cleanliness known as Asia's cleanest village.
 42. Name the city, which has been ranked at the top position in the most dynamic city 2017 in the world according to WEF report?
 43. Who has been appointed as the new CEO and MD of Bharti AXA General insurance recently?
 44. The Foreign Ministry spokesperson of China, Hua Chunying stated that thirty more countries have applied for joining the AIIB besides 57 founding members. The term AIIB stands for-
 45. Which space agency has given the approval to explore an iron-rich asteroid 16 Psyche as a part of its mission to learn more about the history and composition of the celestial body?
 46. Which State's Department of Fisheries has announced to protect the endangered Hilsa Fish from getting extinct and thus has proposed to introduce law to arrest anyone found in illegal catching, buying or selling of Hilsa fish weighing less than 500 grams?
 47. Name the renowned Indian Scientist and the researcher of black hole, who has passed away, recently?
 48. RBI Governor Urjit Patel has stated the parliamentary standing committee on finance for approving Rs 9.2 lakh crore of new currency which has been issued so far. Who is the present Chairman of parliamentary standing committee?
 49. Which country has hold its first strategic dialogue with India in New Delhi, recently?
 50. Name the team, who has bagged the Pro Wrestling League Season 2 title by defeating Haryana in Final?
 51. Mizoram Chief Secretary Lalmalsawma has inaugurated the Entrepreneurship Development Scheme (EDS) under the NEDP. The term NEDP stands for-
 52. In a bid to revamp the Indian railways, Railway minister _____ has unveiled Mission 41k, a plan that would save Rs 41,000 crore over 10 years through an integrated energy management system.
 53. Prime Minister Shri Narendra Modi has inaugurated the second edition of Raisina Dialogue in-
 54. Insurance giant Lloyd has received the final approval from the Insurance Regulatory and Development Authority (IRDA) to set up its first branch in India. Lloyd is based in-
 55. To put an innovative progress in elementary education sector of the country by continuous monitoring of the flagship scheme - Sarva Shiksha Abhiyan (SSA), Union Human Resource Development Minister Prakash Javadekar has launched a dedicated web portal _____ which has been prepared by World Bank in collaboration with Ministry of Human Resource Development.
 56. Netaji Subhash Chandra Bose Birth Anniversary is observed on?
 57. Name the City, in which Prime Minister Narendra Modi has inaugurated Combined Commanders' Conference

- conducted, recently?
58. Name the Country, which has helped India's national transporter to increase the speed of its passenger trains up to 200 km per hour, recently?
 59. A special task force (STF) for women safety meeting has been reconstituted under the Chairmanship of Lieutenant Governor (L-G) Anil Baijal, recently in which city?
 60. Name the Contactless Credit Card, which has been launched by PNB, recently?
 61. Name the State, which has claimed to have formed the world's longest human chain, covering an estimated distance of 11,292 kilometres, involving over two crore citizens against alcoholism and liquor, recently?
 62. Name the State, which has set the new world record in More than 3.5 lakh people sing National Anthem, recently?
 63. Name the Village, which has bagged the UNWTO award for Innovation in the category of Non-Governmental Organisations (NGO) , recently?
 64. Name the Company , which has become the most innovative company of 2016 according to Boston Consulting Group's (BCG's) annual list which ranks world's 50 most innovative firms for the 11th straight year.
 65. Name the Airport, which has won the Golden Peacock Award for Corporate Social Responsibility (CSR) in the transportation sector under the Aviation category for the year 2016.
 66. Name the Place, in which new universal rail mill worth Rs 1200 crore Inaugurated, recently?
 67. Name the Country, which has launches 10-year plan to reduce depending on India for Vegetable Imports, recently?
 68. National's Girl Child Day Observed on?
 69. Who has been appointed as the new Institute of Company Secretaries of India (ICSI) Chairman, recently?
 70. Who Has been appointed as the new Chief Operating Officer (COO) of Transport Company Ola, recently?
 71. Name the Firm, which has signed an MOU with Bank of Baroda to provide Rs 4000 crore loans to one lakh farmers to improve socio-economic lives of farmers and encourage them towards digitisation, recently?
 72. Name the Country, which has withdrawn the Visa-Free Facility for Indians, recently?
 73. Where was the 47th World Economic Forum Meeting 2017 was held, recently?
 74. How much percent considering under FDI by Minister of State for Food Processing Industries, recently?
 75. Who has been appointed as the head of Himachal Olympic Association, recently?
 76. Name the Bengaluru based Start-up, which has proposes nameplate on the Moon for Rs.500, recently?
 77. Who has won the ITF Junior Tennis title 2017, recently?
 78. Venezuelan President Nicolas Maduro has awarded the first ever Hugo Chavez Prize for Peace and Sovereignty to President Vladimir Putin. Vladimir Putin is the present president of-
 79. Name the person, who has confirmed as US envoy to United Nations recently?
 80. The Election Commission of India has celebrated the _____ National Voters' Day across the country on 25th January 2017 for enhanced participation of citizens in the electoral process.
 81. Which online ticket firm has been acquired by BookMyShow for an undisclosed amount, recently?
 82. Name the Player, who has been bagged the Australia's T20 International player of the Year award?
 83. Which country has been developed the world's biggest Solar Park?
 84. Which state has been launched Chief Ministers Award to reward districts digital Payments?
 85. The Minister of Commerce & Industry _____ has launched Rubber Soil Information System (RubSIS) in New Delhi to provide the detail RubSIS about the soil quality to the rubber growers to enhance productivity besides reducing the cost of production.
 86. Who has been appointed as the brand ambassador of Kings XI Punjab, recently?
 87. Who has been appointed Director of the New Delhi based United Nations Information Centre (UNIC) covering India and the Kingdom of Bhutan by the UN Secretary-General Antonio Guterres?
 88. India has partnered with _____ to over a project that aims to study the air pollution level in Delhi and health problems associated it.
 89. Name the Emmy award-winning US actress, who has passed away at the age of 80?
 90. India has celebrated its 68th Republic Day on 26th January 2017. who was the state guest of honour (chief guest) for the 68th Republic Day on 26th January 2017?
 91. US President Donald Trump has signed directives to build a wall along the US border with _____ and crack down on US cities that shield illegal immigrants, proceeding quickly on sweeping and divisive plans to Kerb immigration and boost national security.
 92. Which state government has ordered released of 439 prisoners on humanitarian grounds on the eve of 68th Republic Day?
 93. Which state has announced a total ban on polythene carry bags from May 1, 2017 across the state?
 94. What is India's ranking in a list of eight great powers for the year 2017 issued by the leading American foreign policy magazine "The American Interest"?
 95. In which city, India's first Post office Passport Seva Kendras (POPSK) has inaugurated?
 96. Facing sexual harassment charges, V Shanmuganathan recently resigned as the Governor of
 97. The Chief Minister of _____ Pinarayi Vijayan has launched the IT Project, e-Health Kerala which is named Jeevan Rekha at Peroorkada Model Government Hospital.

98. Which state has launched 'Dulari Kanya', a special scheme to check infant mortality in the state?
99. Which bank has signed a memorandum of understanding (MoU) with the Rajkot-based Tirth Agro Technology Pvt Ltd (manufacturer of agricultural equipment and implements) for financing agricultural mechanisation.
100. Which state ranked first in the 'Cashless India Scorecard' prepared by Walnut app to track the growth of digital payments in the country?
101. Who has been awarded for Ashok Chakra on 68th Republic Day 2017?
102. Russian Ambassador _____ a fluent Hindi-speaking career diplomat considered a great friend of India, passed away at a hospital after a brief illness.
103. Which company has buys Switzerland based bio-pharmaceutical firm, Actelion, for \$30billion (27.9 billion euros)?
104. Who has been appointed as the new attorney to key White House position, recently?
105. Indian Space Research Organisation (ISRO) has successfully ground tested the Cryogenic Upper Stage engine meant for the rocket GSLV-Mark-III. Who is the present Chairman of ISRO?
106. Usain Bolt has lost his Gold medal because his relay teammate Nesta Carter was found guilty of doping at the 2008 Beijing Olympics. Usain Bolt belongs to which Country?
107. In order to woo the young audiences at the 2020 Olympics, the organisers of the Tokyo Games have unveiled Japan's cult anime character _____ as its ambassador.
108. Name the person, Who has selected to the 2017 Ophthalmology Hall of Fame instituted by the American Society of Cataract and Refractive Surgery?
109. Name the State, in which Oil Companies HPCL, ONGC and the GAIL have signed MoUs for investing Rs 1.65 lakh crore?
110. Which state government has signed a memorandum of agreement with French firm Aerocampus Aquitaine, known for aircraft maintenance skill training, to create a world-class aero skill academy recently?
111. The government stated that _____ banks are connected with the Aadhaar-enabled payment system and 33.87 crore transactions have taken place through Aadhaar-enabled payment systems.
112. India has been ranked at 79th spot out of 176 countries in the Corruption Perception Index (CPI) for the year 2016 released by the Berlin-based corruption watchdog Transparency International (TI). Which country has topped the Corruption Perception Index (CPI) 2016 list?
113. Name the State, which has launched Rs 100 cr fund of funds for investing in Fintech Startup recently?
114. The State Bank of India has launched a new wealth management product named 'SBI Exclusif' in-
115. Who has been appointed as the new vice-chancellor of Nalanda University?
116. Name the renowned personality, who will headed the committee to identify athletes under Target Olympic Podium (TOP) Scheme?
117. President Pranab Mukherjee has given Governor of Assam _____ additional charge of Meghalaya.
118. IndiaPost has become the third entity to receive a final license from the Central Bank (RBI) to start its payment bank operations. Payments bank has initially be restricted to holding a maximum balance of how much amount per individual customer?
119. In Australian Open 2017 tennis, Serena Williams beat her sister Venus Williams in the final to win her _____ Grand Slam singles title.
120. Which country has announced it will appoint a 'digital ambassador' to manage its relationship with technology giants like Google and Apple, becoming the first country to do so.
121. Who won the men's singles title at the 2017 Australian Open?
122. Name the City, in which India's first sports museum has opened to the public?
123. Who has been appointed as the Karnataka Lokayukta, recently?
124. Switzerland's Roger Federer has become the second player in tennis history after _____ to crossing \$100 million (over Rs680 crore) in tournament earnings after winning the Australian Open.
125. Who has appointed as interim MD and CEO of the India Post Payment Bank (IPPB), recently?
126. India Post has become the third entity to receive a final license to start payments bank in India. The other two are-
127. Which state has signed an MoU with Gokaldas Experts for setting up four apparel manufacturing units?
128. Iris Mittenaere has crowned Miss Universe 2016 at the Mall of Asia Arena. Iris Mittenaere belong to which country?
129. Who has won the Syed Modi International Grand Prix Gold after beating Indonesia's Gregoria Mariska in the final?
130. The Union Minister of Road Transport and Highways and Shipping, Nitin Jairam Gadkari has inaugurated a 3-lane Brahmaputra Bridge at Saraighat in.....
131. Who has been appointed as the BCCI Chief by Supreme Court, recently?
132. Name the person, who starred in The Elephant Man and Harry Potter has passed away at his residence in Norfolk, London?
133. Who has won the Kolkata Marathon as amateur runners from north Bengal and Northeast India dominated the first edition?
134. Future Generali India Insurance Company Ltd (FGIL) has entered into a corporate agency tie-up for its products with which bank?

ANSWERS:

1. January 15, 1948
2. Gujarat
3. SpaceX
4. Bikaner
5. Madhya Pradesh
6. Shatrughan Sinha
7. 15 rupees
8. Dangal
9. Surjit Singh Barnala
10. Hyderabad
11. Sard Hawa
12. Rajeev Singh
13. Pinakin
14. Switzerland
15. 24th
16. 48 million US Dollars
17. Tamil Nadu
18. Kozhikode Corporation
19. Deepak Roy
20. 6.6 per cent
21. China
22. 25 percent
23. Special Economic Zones
24. Kiran Doshi
25. Valtteri Bottas
26. Manipur
27. New Delhi
28. Lithuania
29. BSNL
30. Gita Sen
31. Germany
32. Karnataka
33. Antonio Tajani
34. Kapil Dev
35. Punjab National Bank
36. Yes Bank
37. petroleum products
38. 28th
39. Belgrade
40. Madhya Pradesh
41. Meghalaya
42. Bengaluru
43. Sanjeev Srinivasan
44. Asia Infrastructure Investment Bank
45. National Aeronautics and Space Administration (NASA)
46. West Bengal
47. CV Vishveshwara
48. M Veerappa Moily
49. UAE
50. Punjab Royals
51. New Economic Development Policy
52. Suresh Prabhu
53. New Delhi
54. UK
55. ShaGun
56. 23rd January
57. Dehradun
58. Russia
59. New Delhi
60. PNB-Wave
61. Bihar
62. Gujarat
63. Govardhan eco-village
64. Apple
65. Indira Gandhi International Airport
66. Bhilai Steel Plant
67. Nepal
68. 24 January
69. Siddhartha Muraka
70. Vishal Kaul
71. Kwality
72. Hong Kong
73. Davos, Switzerland
74. 100%
75. Anurag Thakur
76. TeamIndus
77. Dhruv Sunish
78. Russia
79. Nikki Haley
80. 07th
81. MastiTickets
82. Shane Watson
83. China
84. Assam
85. Smt. Nirmala Sitharaman
86. Virender Sehwag
87. Derk Segaar
88. UK
89. Mary Tyler Moore
90. Mohammed bin Zayed Al Nahyan
91. Mexico
92. Gujarat
93. Madhya Pradesh
94. Sixth
95. Mysuru, Karnataka
96. Meghalaya
97. Kerala
98. Arunachal Pradesh
99. Karnataka Bank
100. Gujarat
101. Havildar Hangpan Dada
102. Alexander Kadakin
103. Johnson & Johnson
104. Uttam Dhillon
105. AS Kiran Kumar
106. Jamaica
107. Son Goku
108. Gullapalli N Rao
109. Andhra Pradesh
110. Telangana
111. 119
112. Somalia
113. Andhra Pradesh
114. Kochi, Kerala
115. Dr Vijay Bhatkar
116. Abhinav Bindra
117. Banwarilal Purohit
118. Rs. 1,00,000 per individual customer
119. 23rd
120. Denmark
121. Roger Federer
122. Kolkata
123. P Vishwanath Shetty
124. Novak Djokovic
125. AP Singh
126. Paytm and Bharti Airtel
127. Andhra Pradesh
128. France
129. P V Sindhu
130. Guwahati
131. Vinod Rai
132. Sir John Hurt
133. Abul Hossain
134. Bank of Maharashtra



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Twisted Ones for Banking Exams: Reasoning

Directions (1-5): Read the following information carefully and answer the questions that follow:

Seven family members A, B, C, D, E, F and G are sitting around a circular table facing either the centre or opposite the centre, but not necessarily in the same order. Each of them likes different colour viz. Red, White, Black, Yellow, Violet, Green and Pink but not necessarily in the same order. There are two married couple in the family. And number of females are more than males in the family. C is the brother of E's only sister G. D is father of E. C is married to A. B is son of C. F is mother in law of A. C sits third to the right of E's sister. G faces the centre. Only one person sits between C and the person who likes Yellow. Immediate neighbours of C face outside. Only one person sits between F and D. Both F and D face the centre. Husband of F does not like Yellow. Wife of C likes Green. A faces the centre. Two people sit between the persons, who like Green and White. The person, who likes Violet sits to the immediate left of E. E faces same direction as her brother. The person, who likes Black sits to the immediate left of the person, who likes Pink.

- The son of A likes which colour?
(a) Red (b) White (c) Yellow
(d) Violet (e) Pink
- What is position of B with respect to the person, who likes White?
(a) Immediate right (b) Third to the left
(c) Second to the right (d) Second to the left
(e) Fourth to the right
- Who sits to the immediate right of sister of G?
(a) The person who likes White.
(b) C (c) B
(d) The person who likes Yellow. (e) A
- Who amongst the following sits exactly between brother of G and the person who likes yellow?
(a) B (b) The person who likes White.
(c) The person who likes Pink .
(d) D (e) G
- Who amongst the following sit between the persons, who likes White and Green, when counted for the left hand side of the person who likes White?
(a) F and G (b) E and C (c) C and B
(d) F and D (e) B and D

Directions (6-10): Study the following information carefully and answer the questions given below:

There are seven rings labeled as A, B, C, D, E, F, G which are of different colors viz. green, yellow, red, blue and pink. They are made up of different material viz. Ruby, Pearl, Diamond, Emerald, Topaz, Garnet and Sapphire. They are of different shapes viz. square, oval, hexagonal, circle, pentagonal and rectangle. Not more than two rings are of samecolor and there is at least one ring of each of the above colours. The following information is known about them.

- A is of yellow color.

- E is a pink colored emerald ring.
- Only diamond ring is of pentagonal shape.
- D and F are of samecolor.
- Only Ruby ring is of square shape but is not of blue color.
- B is either a pearl or garnet ring.
- F is of rectangular shape.
- Only Topaz ring is of circular shape but is neither a yellow colored ring nor D.
- None of B and F is of red color.
- A green colored ring is of hexagonal shape and in any case is not D.
- The sapphire ring is of red color.
- C and E are of same shape.
- There are two red colored rings.
- Which ring is of oval shape?
(a) C (b) G (c) E
(d) A (e) Both C and E
- Which one of the following is a Garnet ring?
(a) B (b) F (c) D
(d) A (e) Cannot be determined
- Which one of the following is a blue colored ring?
(a) B (b) C (c) G
(d) F (e) Cannot be determined
- Which of the following statements is true?
(a) A is a diamond ring of pentagonal shape
(b) F is a garnet ring of blue color
(c) G is a red colored Topaz ring
(d) C is not a sapphire ring of oval shape
(e) D is a Ruby ring of square shape
- Which of the following is Yellow color?
(a) E (b) A (c) D
(d) F (e) G

Directions (11-15): In each question given below a statement is given that is followed by three assumptions numbered I, II and III. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

- Statement:** "Move into the upper echelons without paying steep price. Book a luxurious flat with us". -Advertisement of a construction company.

Assumptions

- It is possible to join the select brand of rich people by hard work.
 - Staying in luxury without paying steep price is the criterion of uppercrust of society.
 - Booking a luxurious flat is very easy now.
- Only II (b) Only III (c) II and III
(d) Only I (e) None of these
- Statement:** "City 'X' should have more women driving public transport because most do not like to speed unnecessarily, prefer not to talk on mobiles while driving, do not listen to

blaring music and rarely skip red lights.” - A minister of state X

Assumptions

- I. More women driving buses and autos will create more job opportunities for women.
- II. Women are more disciplined than men on the roads.
- III. If women start driving buses and autos it would increase chances of safety for commuters.

- (a) I and II (b) II and III (c) I and III
- (d) All of these (e) None of these

13. **Statement:** In the recently held All India Commerce Conference the session on ‘Management of Service Sector in India’ surprisingly attracted a large number of participants and also received a very good media coverage in the leading newspapers.

Assumptions

- I. People were not expecting such as encouraging response for service sector.
- II. Service sector is not managed properly in India.
- III. Media is always very positive towards service sector.

- (a) None is implicit (b) Only I is implicit
- (c) All are implicit (d) II and III are implicit
- (e) Either I or III is implicit

14. **Statement:** “Tender specification will not be issued to the firms where there is 25% or more default in supplies against earlier purchase orders placed on them”. -Condition of a company X inviting tenders for the purchase of materials.

Assumptions

- I. The company X will be watching the quality of performance of its suppliers.
- II. This time the firms should keep the percentage of default as less as possible.
- III. The company X expects quality and professional approach from its suppliers.

- (a) Only I is implicit (b) Only II is implicit
- (c) Either II or III is implicit (d) Only III is implicit
- (e) None of the above

15. **Statement:** “The employees association has appealed to the managers of company ‘S’ to introduce written examination for clerical cadre recruitment to prevent selection of incompetent persons”.

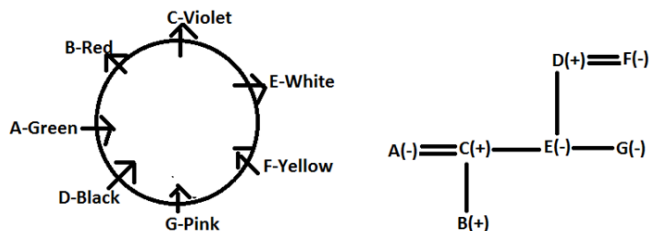
Assumptions

- I. So far, the company ‘S’ used to select candidates without conducting a written examination.
- II. A written exam can help to identify competent persons.
- III. At higher level written examination may not be of much use.

- (a) I and II (b) Only I (c) Only II
- (d) All of these (e) None of these

Solutions

Solutions (1-5):



- 1. (a)
- 2. (d)
- 3. (d)
- 4. (b)
- 5. (c)

Solutions (6-10):

RING	COLOUR	MATERIAL	SHAPE
A	YELLOW	RUBY	SQUARE
E	PINK	EMERALD	OVAL
B	GREEN	PEARL OR GARNET	HEXAGONAL
F	BLUE	PEARL OR GARNET	RECTANGULAR
D	BLUE	DIAMOND	PENTAGONAL
C	RED	SAPPHIRE	OVAL
G	RED	TOPAZ	CIRCULAR

- 6. (e)
- 7. (e)
- 8. (d)
- 9. (c)
- 10. (b)
- 11. (b); Assumption I and II are not directly related to the statement, so they are not implicit. Assumption III is implicit because from the advertisement of the company it is clear that booking luxuriesflat is very easy now.
- 12. (e); Assumption I is not implicit because job opportunities for women is not the perspective of the minister. Assumptions II is not implicit as nowhere it is discussed the comparison of men and women and III is implicit because from the statement it can be assumed that this increase changes of safety for commuters.
- 13. (b); Assumption I is implicit because people were surprised to see large number of participants which was not expected. Assumption II and III are not implicit because they are not directly related to the statement.
- 14. (e); All the three assumptions are implicit. Company X wants to invite tender from those firms which were less defaulter. This time it wants percentage of default lesser and it expects quality and professional approach from its suppliers, so it is watching the quality of performance of its suppliers.
- 15. (a); From the statement, it is clear that at present company ‘S’ is selecting candidates without conducting a written examination. A written exam can help to identify competent persons. So, assumption I and II are implicit. Assumption III is not implicit as it is going against the statement.

Twisted Ones for Banking Exams: Quantitative Aptitude

- The average monthly expenditure of a family was Rs. 2200 during the first 3 months; Rs. 2250 during the next 4 months and Rs. 3120 during the last 5 months of a year. If the total savings during the year were Rs. 1260, then the average monthly income was:
 - Rs. 2605
 - Rs. 2805
 - Rs. 2705
 - Rs. 2905
 - Rs. 2995
 - A man fell in love with a woman who lived 63 miles away. He decided to propose his beloved and invited her to travel to his place and offered to meet her en route and bring her home. The man is able to cover 4 miles per hour to the woman's 3 miles per hour. How far will each have travelled upon meetings?
 - Man = 27 miles; woman = 36 miles
 - Man = 36 miles; woman = 27 miles
 - Man = 40 miles; woman = 23 miles
 - Man = 45 miles; woman = 18 miles
 - Man = 40 miles; woman = 18 miles
 - Between two stations, the first, second and third class fares are in the ratio 9 : 7 : 2. The number of passengers travelling in a day are in the ratio 5 : 3 : 2, respectively, in the above classes. If the sale of tickets generated revenue of Rs. 98,000 that day and if 200 passengers travelled by third class, what was the fare for a first class ticket?
 - Rs. 84
 - Rs. 92
 - Rs. 106
 - Rs. 126
 - Rs. 116
- Directions (4-6):** Answer the questions based on the following information.
- Alphonso, on his death bed, keeps half his property for his wife and divides the rest equally his three sons; Ben, Carl and Dave. Some years later, Ben dies leaving half his property to his widow and half to his brothers Carl and Dave together, sharing equally. When Carl makes his will, he keeps half his property for his widow the rest he bequeaths to his younger brother Dave. When Dave dies some years later, he keeps half his property for his widow and the remaining for his mother. The mother now has Rs. 15,75,000.
- What was the worth of the total property?
 - Rs. 30 lakhs
 - Rs. 8 lakhs
 - Rs. 18 lakhs
 - Rs. 24 lakhs
 - Rs. 25 lakhs
 - What was Carl's original share?
 - Rs. 4 lakhs
 - Rs. 12 lakhs
 - Rs. 6 lakhs
 - Rs. 5 lakhs
 - Rs. 2 lakhs
 - What was the ratio of the property owned by the widows of the three sons in the end?
 - 7 : 9 : 13
 - 8 : 10 : 15
 - 5 : 7 : 9
 - 9 : 12 : 13
 - 8 : 9 : 13
- Two partners invested Rs. 1250 and Rs. 850 respectively in a business. Both the partners shared 60% of the profit and distributed the rest 40% as the interest on their capital. If one partner received Rs. 30 more than the other, then the total profit is:
 - Rs. 262.50
 - Rs. 622.50
 - Rs. 220.50
 - Rs. 226.50
 - Rs. 522.25
- Directions (8-9):** Answer the questions based on the following information.
- A watch dealer incurs an expense of Rs. 150 for producing every watch. He also incurs an additional expenditure of Rs. 30,000 that is independent of the number of watches produced. If he is able to sell a watch during the season, he sells it for Rs. 250. If he fails to do so, he has to sell each watch for Rs. 100.
- If he is able to sell only 1200 out of 1500 watches he has made in the season, then he has made a profit of:
 - Rs. 90,000
 - Rs. 75,000
 - Rs. 45,000
 - Rs. 60,000
 - Rs. 50,000
 - If he produces 1500 watches, what is number of watches that he must sell during the season in order to breakeven, given that he is able to sell all the watches produced?
 - 500
 - 700
 - 800
 - 1000
 - None of these
 - Robin, the cook, can cut either 120 carrots or 72 potatoes or 60 beetroots in t mins. One day, during the first K mins, he spent an equal amount of time cutting each of three types of vegetables. However, in the next K mins, he cut exactly n carrots, n beetroots and n potatoes. If he cut a total of 282 vegetables during the first 2K mins on that day, what is value of n?
 - 225
 - 72
 - 45
 - 135
 - 155
 - A team of 30 men is supposed to do a work in 38 days. After 25 days, 5 more men were employed the work was finished one day earlier. How many would it have been delayed if 5 more men were not employed?
 - 1 day
 - 4 days
 - 3 days
 - 5 days
 - 6 days
 - Three pipes A, B and C are connected to a tank. These pipes can fill the tank separately is 5 hrs, 10 hrs and 15 hrs, respectively. When all the three pipes were opened simultaneously, it was observed that pipes A and B were supplying water at three-fourths of their normal rates for the 1st hrs after which they supplied water at the normal

rate. Pipe C supplied water at two-thirds of its normal rate for first 2 hrs, after which it supplied at its normal rate. In how much time, tank would be filled?

- (a) 1.05 hrs (b) 2.05 hrs (c) 3.05 hrs
(d) 4.05 hrs (e) 2.55 hrs

13. A pump can be used to either fill or drain a tank. The capacity of the tank is 3600 m^3 . The draining capacity of the pump is $10 \text{ m}^3/\text{minute}$ higher than its filling capacity. What is the draining capacity of the pump if it takes 12 minutes more to fill the tank than to drain it?

- (a) $50 \text{ m}^3/\text{minute}$ (b) $60 \text{ m}^3/\text{minute}$
(c) $45 \text{ m}^3/\text{minute}$ (d) $90 \text{ m}^3/\text{minute}$
(e) $95 \text{ m}^3/\text{minute}$

14. Two trains A and B, 100 m long are moving on parallel tracks at speeds of 20 m/s and 30 m/s respectively. They are travelling in opposite direction.

The driver of train A sees the driver of train B when he is closest to high. He throws a ball at a speed of 2 m/s which hits the tail of train B. What is the distance between the two trains?

- (a) 0 m (b) 10 m (c) 4 m
(d) 8 m (e) 5 m

15. The cost of fencing a circular plot at the rate of Rs. 15 per metre is Rs. 3,300. What will be the cost of flooring the plot at the rate of Rs. 100 per square metre ?

- (a) Rs. 3,85,000 (b) Rs. 2,20,000
(c) Rs. 3,50,000 (d) Cannot be determined
(e) None of these

Solutions

1. (c); Total expenditure for the year
 $= [2200 \times 3 + 2250 \times 4 + 3120 \times 5]$
 $= 6600 + 9000 + 15600 = \text{Rs. } 31200$
 Total saving = Rs. 1260
 Total income = expenses + savings
 $= 31200 + 1260 = \text{Rs. } 32460$
 Average income
 $= \frac{32460}{12} = \text{Rs. } 2705$

2. (b); Ratio of speed = Ratio of distance.
 Therefore, ratio of distance = 4 : 3.
 Hence, the man travels 36 miles and the woman 27 miles.

3. (d); Ratio of number of passengers is 5 : 3 : 2
 \therefore If 200 passengers traveled by third class,
 500 must have travelled by first class
 Sum of ratio of amount collected
 $= (5 \times 9 + 3 \times 7 + 2 \times 2) = 45 + 21 + 4 = 70$
 \therefore Amount collected from 1st class

$$= \frac{45}{70} \times 98000 = \text{Rs. } 63,000$$

\therefore Fare for the first class

$$= \text{Rs. } \left(\frac{63000}{500} \right) = \text{Rs. } 126$$

4. (d); Let the total property of Alphonso be Rs. x
 After first distribution, money possessed by the family members would be

$$\text{Wife} = \left(\frac{x}{2} \right), \text{ Ben } \left(\frac{x}{6} \right), \text{ Carl } \left(\frac{x}{6} \right), \text{ Dave } \left(\frac{x}{6} \right)$$

After second distribution, money possessed by each of them would be

$$\text{Alphonso's wife} = \left(\frac{x}{2} \right), \text{ Ben } (0),$$

$$\text{Ben's wife} \left(\frac{x}{12} \right), \text{ Carl } \left(\frac{x}{6} + \frac{x}{24} \right), \text{ Dave } \left(\frac{x}{6} + \frac{x}{24} \right)$$

After third distribution, money possessed by them

$$\text{would be Alphonso's wife } \left(\frac{x}{2} \right), \text{ Ben } (0),$$

$$\text{Ben's wife } \left(\frac{x}{12} \right), \text{ Carl } (0), \text{ Carl's wife } \left(\frac{5x}{48} \right),$$

$$\text{Dave } \left(\frac{x}{6} + \frac{x}{24} + \frac{5x}{48} \right) = \frac{15x}{48}$$

After last distribution, money possessed by them

$$\text{Alphonso's wife } \left(\frac{x}{2} + \frac{15x}{96} \right), \text{ Ben } (0)$$

$$\text{Ban's wife } \left(\frac{x}{12} \right), \text{ Carl } (0), \text{ Carl's wife } \left(\frac{5x}{48} \right), \text{ Dave}(0), \text{ Dave's wife} = \left(\frac{15x}{96} \right)$$

Now, given that

$$\left(\frac{x}{2} + \frac{15x}{96} \right) = 157500$$

$$\Rightarrow x = 24,00,000$$

5. (a); Carl's original share = $\left(\frac{x}{6} \right) = \left(\frac{24}{6} \right) = \text{Rs. } 4 \text{ lakhs}$

6. (b); Ratio of property owned by the widows of three sons
 $= \frac{x}{12} : \frac{5x}{48} : \frac{15x}{96} = 8 : 10 : 15$

7. (a); Ratio of the profit = 1250 : 850 = 25 : 17

They shared 60% of the profit

If the total profit is x, then

$$60\% \text{ of } x \times \frac{25 - 17}{25 + 17} = 30$$

$$\Rightarrow \frac{6x}{10} \times \frac{8}{42} = 30 \quad \Rightarrow x = \text{Rs. } 262.50.$$

8. (b); Production cost of 1500 watches

$$= (1500 \times 150 + 30,000) = \text{Rs. } 255,000$$

Amount realized on the sale of 1500 watches

$$= (1200 \times 250 + 300 \times 100) = \text{Rs. } 330,000$$

\therefore Profit earned

$$= (330,000 - 255,000) = \text{Rs. } 75,000$$

9. (b); Production cost of 1500 watches = Rs. 255,000

Let he sells x watches during the season,

therefore, number of watches sold after the season

$$= (1500 - x) \text{ watches}$$

Amount realized on the sale of 1500 watches
 = $250 \times x + 100(1500 - x) = 150x + 150,000$

New, break-even is achieved if production cost is equal to the selling price

$$\therefore 150x + 150,000 = 255,000 \Rightarrow x = 700$$

10. (c); Given the ratio of working rates on the three types of vegetables

as $120 : 72 : 60$ i.e. $10 : 6 : 5$

Suppose, he cuts N vegetables in the first K mins

$\Rightarrow \frac{K}{3}$ min was spend cutting say $10x$ carrots

$\frac{K}{3}$ mins were spent cutting $6x$ potatoes

and $\frac{K}{3}$ mins were spent cutting $5x$ beetroots

During the next K mins, the time distribution was

in the ratio $\frac{1}{10} : \frac{1}{6} : \frac{1}{5}$ i.e. $6 : 10 : 12 = 3 : 5 : 6$

Hence $\frac{3}{14}K$, $\frac{5}{14}K$ and $\frac{6}{14}K$

$$\Rightarrow \text{Carrots cut } \left(\frac{\frac{3}{14}K}{\frac{K}{3}}\right) \times 10x = \frac{90x}{14} \text{ carrots}$$

Similarly, $\frac{90x}{14}$ potatoes and $\frac{90x}{14}$ beetroots are cut.

Total number of vegetables cut in the first $2K$ mins

$$= 10x + 6x + 5x + \left(\frac{90x}{14}\right) \times 3 = 282$$

$$\Rightarrow x = 7 \text{ and } \frac{90x}{14} = 45$$

11. (a); 35 men do the rest of the job in 12 days ($37 - 25 = 12$)

$\therefore 30$ men can do the rest of the job in $\frac{12 \times 35}{30} = 14$ days

Thus, the work would have been finished in $(25 + 14) = 39$ days

That is, $(39 - 38) = 1$ day after he scheduled time

12. (c); The part of the tank filled by A and B in first two hrs

$$= \frac{3}{4} \left(\frac{1}{5} + \frac{1}{10}\right) + \left(\frac{1}{5} + \frac{1}{10}\right)$$

The part of tank filled by C in first two hrs

$$= 2 \left(\frac{2}{3}\right) \left(\frac{1}{15}\right)$$

Remaining part of the tank to be filled = $\frac{139}{360}$

In 1h, all the three pipes together will fill = $\frac{11}{30}$

Hence, the time taken to fill the remaining tank

$$= \left(\frac{139}{360}\right) \left(\frac{30}{11}\right) = 1.0530 \text{ hrs}$$

Thus, the total time taken to fill the tank = 3.05 hrs

13. (b); Let x m³/minute be filling capacity of the pump.

Therefore, the draining capacity of the pump will be $(x + 10)$ m³/minute.

The time taken to fill the tank is $\frac{3600}{x}$

The time taken to drain the tank is $\frac{3600}{x + 10}$

We know that it takes extra 12 min to fill the tank than to

drain it.

Therefore,

$$3600x + 36000 - 3600x = 12(x^2 + 10x)$$

$$\Rightarrow 36000 = 12(x^2 + 10x)$$

$$\Rightarrow 3000 = x^2 + 10x$$

$$\Rightarrow x^2 + 10x - 3000 = 0$$

$$\Rightarrow (x + 60)(x - 50) = 0$$

$$\Rightarrow x = -60 \text{ or } x = 50$$

So, we will accept the positive value of $x (=50)$.

Therefore, draining capacity of the pump is $50 + 10 = 60$ m³/minute

14. Ans.(c)

Sol. Since the trains are travelling in opposite direction velocity

for the driver of the faster train = 50 m/s

Distance travelled = length of the train = 100 m

Time taken by the ball from one train to the other

$$= \frac{100}{50} = 2 \text{ seconds}$$

Ball is thrown at 2 m/s,

\therefore distance between the two trains = $2 \times 2 = 4$ m.

15. (a); Total cost of fencing = Rs. 3300

Rate = Rs. 15 /metre

$$\text{Circumference of circular plot} = 2\pi r = \frac{3300}{15} = 220$$

$r = 35$ m

Area of the circular plot = $\pi r^2 = \pi \times 35 \times 35 = 3850$

Cost of flooring = $3850 \times 100 = \text{Rs. } 385000$



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Twisted Ones for Banking: English Language

Directions (1-15): Five alternative summaries are given below the text. Choose the option that best captures the essence of the text.

1. When the next full-scale global financial crisis hits, let it not be said that the International Monetary Fund never took a stab at forestalling it. Recently, the IMF proposed a new global tax on financial institutions loosely in proportion to their size, as well as a tax on banks' profits and bonuses.
 - (a) The IMF has proposed a new global tax on financial institutions and banks in an attempt to forestall future financial crises.
 - (b) The IMF's new global tax on financial institutions and banks will prevent future financial crises.
 - (c) The IMF has proposed a new global tax on financial institutions and banks which will forestall financial crises.
 - (d) The IMF has proposed a tax on financial institutions' and banks' profits' and bonuses that will prevent financial crises.
 - (e) The proposed tax on profits and bonuses of financial institutions and banks is an attempt to forestall future financial crises.
2. Russia and the United States have signed a new strategic nuclear-arms reduction treaty. Officially, the treaty cuts their weapons by one-third; in fact, each party, will decommission only several dozens. Nevertheless, the treaty is a considerable achievement. It normalizes political relations between the two countries, thereby facilitating their further cooperation and rapprochement.
 - (a) The new strategic arms reduction treaty signed between Russia and the United States may facilitate further cooperation between them.
 - (b) The new strategic arms reduction treaty signed between Russia and the United States may lead to cordial relations between them.
 - (c) Russia and the United States have signed a strategic nuclear-arms reduction treaty to reduce weapons by one-third.
 - (d) Russia and the United States have signed a new strategic nuclear-arms reduction treaty which normalizes political relations between the two countries.
 - (e) Russia and the United States have signed a new strategic nuclear-arms reduction treaty is a considerable achievement.
3. A severe food crisis currently threatens southern Sudan. In East Africa, where millions of people already are dependent on food aid, a sharp rise in the cost of staple crops looms. These are just the latest sources of concern in a turbulent period that began two years ago when food shortages hit many countries in Africa and Asia due to a worldwide spike in prices. Higher food prices meant that poor people, already struggling to meet basic human needs, were pushed deeper into poverty.
 - (a) An impending food crisis looms over southern Sudan where higher food prices have pushed people deeper into poverty.
 - (b) The food crisis in Africa and Asia, especially in southern Sudan already struggling under food shortages, higher prices, and poverty may worsen owing to further a rise in the cost of staple crops.
 - (c) As many countries in Africa and Asia are experiencing prolonged food shortages, an impending food crisis threatens Sudan due to a rise in the cost of staple crops.
 - (d) The food crisis in Africa and Asia already struggling under food shortages, higher prices, and poverty may worsen owing to further a rise in the cost of staple crops.
 - (e) The food crisis in southern Sudan struggling under food shortages, higher prices, and poverty may worsen owing to further a rise in the cost of staple crops.
4. For millennia, remembering information was costly and time-consuming, and to forget was a natural part of being human. In the digital age, the opposite is true: cheap computer storage, powerful processors, and ubiquitous Internet access have made remembering the norm. Consider this: we tend to retain our rough drafts, years of e-mail traffic, and thousands of ghastly digital snapshots on our hard drives, not because we have decided that they are worth remembering, but because keeping them is now the default way of doing things. By contrast, deciding what to delete is costly. It actually requires much more time and effort to shed data than to keep it.
 - (a) Since the digital age has made retaining information cheap and effortless, we have left behind our natural habit of forgetting.
 - (b) Since the digital age has made storage of data cheap and easy, we now store large amounts of information even it is worthless.
 - (c) Remembering is no more costly and time consuming in the digital age; hence, we store large amounts of worthless information.
 - (d) The digital age has made it possible to retain large amounts of data cheaply and easily; hence we remember more unlike in the past.
 - (e) As deciding what to delete is costly and time consuming we now tend to store everything from rough drafts to ghastly images.
5. In recent decades, economists have been struggling to make use of the concept of human capital, often defined as the abilities, skills, knowledge, and dispositions that make for economic success. Yet those who use the term often assume that to conceptualize a phenomenon is a first step to manipulating it. And, indeed, "human-capital policy" is now much in fashion. But what if many of the abilities and dispositions in question are a product of history, capable of being understood and explained but not readily replicated?
 - (a) Economists trying to conceptualize human capital must

know that the abilities and dispositions are a product of history incapable of being replicated.

(b) Economists trying to conceptualize human-capital policy for economic success must know history and that success cannot be replicated.

(c) The abilities, skills, knowledge, and dispositions that make for economic success are a product of history and may not be replicable.

(d) Economists attempting a policy based on human capital for economic success must know that the abilities referred to as human capital may not be readily replicable.

(e) Economists struggling to replicate economic success through a human-capital policy must know that human capital is a product of history and may only be understood.

6. An individual is free and autonomous only because of the collective decisions taken after democratic debate, notably those decisions that guarantee each person access to public goods such as education, health care, etc. Some sense of social solidarity may remain, but it is so abstract that those for whom the wheel of fortune has spun so favourably feel little debt. They believe that they owe their status purely to merit, not to the collective efforts-state-funded schools, universities, etc. – that enabled them to realize their potential.

(a) Individual success and autonomy are a result of the ability to exploit the system put together through collective efforts with a sense of social solidarity.

(b) The decisions that guarantee each person access to public goods are collective in nature, and individual merit is a myth.

(c) Individuals owe their success and autonomy to collective decisions and efforts that guarantee access to public goods like schools and universities.

(d) Individual success and autonomy are a result of the systems made through collective efforts that guarantee each person access to these systems.

(e) Individuals are free and autonomous only as far as they realize that they owe their success to collective decisions made with a sense of social solidarity.

7. Throughout history, political leaders have supported existing communication technologies in order to defend the system in which they rule. Today, too, governments may be tempted to protect newspapers and public TV on the pretext of “saving democracy as we know it.” But efforts to block technological change have been futile in the past, and they would be unwise today. Instead, the political system and the media must adapt to the new reality – the internet.

(a) Instead of trying to protect newspapers and public TV by blocking the internet, political leaders, and governments must adapt to the new reality.

(b) As they have failed in the past, political leaders and government would fail to block the internet by promoting the newspapers and public TV.

(c) Political leaders and governments have consistently

failed in their efforts to block new technologies by supporting the existing ones.

(d) By supporting the newspapers and the public TV politicians and governments are trying to protect the existing media under the pretext of saving democracy.

(e) The efforts by governments and politicians to save the existing communication technologies have always proved futile; instead they must adapt to the new reality, today, the internet.

8. The financial and economic crisis that erupted in 2008 will, in retrospect, be regarded as a transformative moment, because it raised fundamental questions about the future shape of our economic systems. These questions are not so much about the end of capitalism-as some perceive or even desire-but rather about the different ways in which capitalism is understood in different countries.

(a) In retrospect, the economic crisis of 2008 raised fundamental questions about the future of capitalism working in different countries.

(b) In retrospect, the crisis that erupted in 2008 was not about the failure of capitalism as some see it, but about the differences between countries.

(c) In retrospect, the economic crisis of 2008 was not about the end of capitalism, but about how capitalism is understood in different countries.

(d) In retrospect, the crisis that erupted in 2008 was not fundamentally about the end of capitalism but about the future of capitalism in different countries.

(e) The economic crisis of 2008 did not signal the end of capitalism of its future but how it is understood in different countries.

9. Newspapers are dying; the music industry is still yelping about iTunes; book publishers think they are next. Yet one bit of old media seems to be doing rather well. In the final quarter of 2009 the average American spent almost 37 hours a week watching television. Earlier this year 116 m of them saw the Super Bowl-a record for a single programme. Far from being cowed by new media, TV is colonising it. Shows like “American Idol” and “Britain's Got Talent” draw huge audiences partly because people are constantly messaging and tweeting about them, and discussing them on Facebook.

(a) Though newspapers, the music, and publishing industries are dying, American TV has been able to draw large audiences and being discussed on the internet.

(b) Though newspapers, the music and publishing industries are dying, American TV is colonizing the media with the average American spending 37 hours per week watching television.

(c) Though newspapers, the music, and publishing industries are dying, TV is colonizing the media and has huge audiences.

(d) Newspapers, music industry, and book publishers have been cowed by the new media whereas TV has coped well

and still draws large audiences, as American TV proves.

(e) Newspapers, music, and book publishers have not been able to cope with the emergence of new media but American TV has coped well and still draws large audiences.

10. The tragedy about data collection in India is that by the time primary data is converted into useable information, it may be too late to aid policy intervention. This is true of data collected by not just government agencies such as the National Sample Survey Organization but also think-tanks such as National Council for Applied Economic Research (NCAER). One of the criticisms of Human Development in India: Challenges for a Society in Transition-a report put together by NCAER and Institute of Maryland, US-is that it is based on data collected in 2004-05, and it does not capture the impact of the changes of the past four years when the economy grew at more than 8% on an average every year.

(a) Data collected by government agencies and other research organizations in India is generally useless as no reports based on the primary data is available for years-NCAER report on human development report is an example.

(b) The problem with data collection in India is that reports based on the data are not available in time for use-an NCAER report based on 2004-05 data was released four years later.

(c) The data collection in India is generally useless because reports to guide policy decisions are not made in time-an NCAER report based on 2004-05 data was released four years later.

(d) Data collected by government agencies and other research organizations in India is generally useless; an NCAER report on human development report was released four years after the data was gathered.

(e) Data collected by government agencies and other research organizations in India is generally delayed and do not guide policy decisions-NCAER is an example.

11. Equating war with individual evil has become ubiquitous-if not universal-in contemporary to international politics. Wars are fights against evil tyrants and the illegitimate governments they control. Such rhetoric makes wars easier to justify, easier to wage, and easier to support, especially for elected leaders who must respond directly to swings in public opinion. Such language works equally well for any society in today's media-obsessed age.

(a) In international politics wars are equated with individuals and not governments because it is easier for elected governments to justify war and publicize it.

(b) In international politics, wars are now directed at a personification of evil rather than against tyrants or regimes and are justified by governments in response to public opinion.

(c) In international politics, wars are equated with individual evil and not illegitimate governments because it is easier for elected governments to justify war and propagate it.

(d) In international politics, wars are now justified, waged

and supported by elected governments to swing public opinion in a media-obsessed world.

(e) In the media obsessed current age wars are fought in order swing public opinion rather than against evil tyrants or illegitimate governments.

12. The CEOs owe at least some of their success to others, given that the society provides public goods like universities and health care. This calls for more modesty and restraint in determining the highest salaries, not for moral reasons but for the sustainability of the system. Also, the most privileged classes which have benefited the most from the solidarity of others, notably the poor, can no longer deny the latter's contributions.

(a) As both the CEOs and the poor are products of the same system, these two classes need to acknowledge the system for its sustainability.

(b) The CEOs have a moral responsibly to exercise restraint in their highest salaries and the poor must acknowledge the contribution of the CEOs.

(c) For the sustainability of the system the CEOs need to be modest in their highest salaries, and the poor need to acknowledge the contribution of the CEOs towards their welfare.

(d) The CEOs must reduce their highest salaries and the poor must acknowledge the contribution of the CEOs for the sustainability of the system.

(e) The CEOs must acknowledge the role of public goods in their success and the poor must recognize the contribution of the CEOs for their welfare.

13. After reading literature by some of the world's leading experts on innovation-Clayton Christensen, Henry Chesbrough, John Kao, James Andrew, and Harold Sirkin-I was fascinated, but, alas, also frustrated. Innovation is the production of new knowledge that generates value. It is about fresh ideas that give rise to novel products, services, and processes, new management methods, and original designs and inventions that generate greater profits for firms, regions and countries. These are great ideas, but as I went through these texts I found them to be rather familiar sounding-I had the feeling that somehow and somewhere I had already studied them.

(a) The writer after reading several experts on innovation felt disappointed as the experts themselves were merely repeating what the writer already knew.

(b) Though the writer was fascinated by what several experts in the field had to say on innovation, he felt disappointed that the experts had nothing new to say.

(c) Reading the experts on innovation, the writer was fascinated by their great ideas but felt discouraged that those experts were repeating what he already knew.

(d) After reading the world's best writers on innovation, though I felt fascinated by their great ideas but found nothing new in them.

(e) Innovation is about fresh ideas. I found the world's

leading experts on innovation lacking in innovation in their works.

14. Once a plausible hypothesis is formulated, it must be tested against all existing theories and against all available experience and information. It has to be subject to open criticism from all directions, and only if it survives these tests and criticisms may it be adopted as tentative and conjectural new knowledge. Science and knowledge are made up not of winners, but of survivors of continuous and systematic efforts to refute. Theories are never certain and must always be prepared for an uncertain future.

(a) Science and knowledge have an uncertain future as these are hypotheses that have survived the systematic efforts to refute them.

(b) Science and knowledge are made up not of winners, but of survivors that must be prepared for an uncertain future.

(c) Conjectural new knowledge is that which is subject to criticism from all directions, but have survived the efforts to refute.

(d) Science and knowledge are not made up of definitive truths but of hypotheses that have survived the systematic efforts to disprove them.

(e) Science formulates plausible hypotheses, tests them against existing theories and they are adopted as conjectural new knowledge later.

15. Laljipada's residents are largely entrepreneurs running cottage industries from their homes that are as small as 100 square feet. Primarily migrants from North India, they contradict the popular perception that migrants take away jobs from the local population. The 20,000 families here are self-employed; they make products that feed into larger businesses such as imitation jewelry, recycled plastic and paper waste, or operate small tailoring or bakery units. With each family contributing in some way or the other to the final finished product, all the families here are dependent on each other for their livelihood.

(a) Laljipada's residents run cottage industries from their homes contributing to other finished products and are interdependent on each other for livelihood.

(b) The 20,000 families of Laljipada depend on each other for their livelihood as each family runs some cottage industry producing parts for some other products.

(c) Laljipada's 20,000 families have a well-knit system of cottage industries each one dependent on the other for its livelihood.

(d) Laljipada's 20,000 families are a well-knit system of north Indian entrepreneurs dependent on each other without taking away the jobs from the locals.

(e) Laljipada's 20,000 families are a well-knit system of entrepreneurs making products that feed into larger businesses and each dependent on the other for its livelihood.

SOLUTIONS

- (a); The key elements are: IMF's proposal of new global tax on the profits and bonuses of financial institutions and banks-intend to prevent future global financial crises. Options (B), (C) and (D) say "will prevent"; Option (E) leaves out IMF. Hence option (A) is the best without distortion though some elements are left out; there is no distortion.
- (d); Options (A) and (B) mention "arms treaty" instead of "nuclear arms treaty." Option (C) misses out on the normalizing of relationship and rapprochement. Option (E) misses out on the significant "normalizing of relations." Option (D) is the best concise description.
- (c); The gist of the passage is: Asia and Africa are already experiencing food shortages for two years. The cost of crops is expected to rise in Sudan – this may trigger a severe food crisis in Sudan. In option (A), Asia and Africa are left out. Options (B) and (D) extend the crisis to Asia and Africa, especially the rise in the cost of crops. Option (E) leaves out Asia and Africa. Option (C) gives the gist without distortion of idea.
- (b); The highlight of the paragraph is that the facilities available in the digital age have facilitated storage of data on a large scale. Earlier retaining information was difficult; now deleting is more time-consuming and costly; hence we save almost everything. Option (B), among the options, captures this best. Option (B) is eliminated because it states "natural habit of forgetting" – remembering and forgetting are used more figuratively than literally. Option (C) states "worthless information." Option (D) is similar to option (B). Option (E) misses the digital age.
- (d); Gist of the paragraph: Human capital is the abilities, skills, knowledge, and dispositions that make for economic success – economists are trying to conceptualize and formulate a human – capital policy for success. Human capital is a product of history and may not be readily replicable. Option (A) talks only about conceptualizing and not about using it for success. Option (B) distorts the idea in "must know history." Option (C) does not use the terms economists or human capital or policy. Option (E) is almost correct but is a distortion in "struggling to replicate economic success" and misses the most important point about replication. Option (D), though not the ideal precis, is the best.
- (c); The gist of the paragraph is: The principle social solidarity through democratic debates establishes education, healthcare etc. accessible to individuals. Individuals exploit this system (schools, universities) and become successful. But they feel that their success is due to individual merit. Option (D) summarizes this best within the

constraints of a précis. Option (A) is a distortion in “exploit.” Option (B) is a distortion in “myth.” Option (D) is correct but option (C) is better as it specifies “owe their success” rather than “a result of.” Option (E) is not structured well and is vague.

7. (e); Option (A) and (D) do not mention the failure in the past. Options (B) and (D) leave out the “adapt” idea. Option (E), on the other hand leave out the specifics, and captures the essential attitude of politicians and governments towards new technologies and mentions the “adapt” factor too. Option (E), hence, is the best available précis.
8. (c); Option (A) is contrary to the passage. Options (B) and (D) fail to mention “economic crisis.” Option (E) distorts the idea in “did not signal the end of capitalism or its future.” Option (C) – though it does not include the perception or desire of some people to see the crisis as the end of capitalism, captures the essence without distortion.
9. (d); The paragraph is not about American TV in particular – American TV is cited as example of what TV has achieved. The gist of the paragraph is: newspapers etc., are dying but far from being cowed by new media, TV is colonising it; American TV is an example. Options (A), (B), and (E) stress the American TV which is not the essence of the paragraph. Between (C) and (D), option (D) more accommodative and precise.
10. (c); In addition to the other details in the passage option (C) also mentions “guide policy decisions” which makes it the preferred option. Option (E) is erroneous because it states data collection is delayed. The other options are not incorrect; they are similar but highlight different aspects of the paragraph but leaves out why reports become useless. Hence option (C) scores above them.
11. (b); Option (A) is largely correct but the paragraph states individual evil – option makes it individuals – which is a distortion. All options miss the media part – hence it is of no consequence in the comparison of options. Option (C) is correct but misses the public opinion part. Option (D) misses the individual evil part. Option (E) is a total distortion of the ideas.
12. (c); The gist of the paragraph is: The CEOs owe... their success to ...public goods ... this calls for more modesty in ... highest salaries, ...for the sustainability of the system. Also, the ...the poor, can no longer deny the latter’s contributions. This gist is best captured in the option (C). Option (A) – product of the system; option (B) – moral responsibility; option (D) – must reduce; option (E) – emphasis on public goods (no mention of salaries); all these make option (C) the best choice.
13. (c); The first person is not repeated in a précis. Hence options (D) and (E) are eliminated, however good they may appear. Among options (A), (B) and (C), - option (C) captures

the essence of the paragraph the best. Option (A) misses the “great ideas” part. Option (B) is clearly unclear because the contrast is not clear.

14. (d); The gist of the paragraph is available in the paragraph itself: Science and knowledge are made up not of winners, but of survivors of continuous and systematic efforts to refute. In fact, all the options also in one way or the other say the same thing, but the phrasing and the emphasis changes. Option (D) phrases it the best, hence the
15. (e); The paragraph is very easy to understand. You need to choose the option that best communicates in fewer words the intended communication of the paragraph without any distortion or incorrect emphasis. Option (E) expresses the gist in the best way. The other options have something or the other which either not necessary or is emphasized unnecessarily.



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Hello Dreamers & Doers.

My name is **Chetan (Babu)**, today on **5/02/17**, I appeared for IBPS PO interview and I am sharing my experience with you all so that you all can be proactive for your future interviews.

Things you should keep in mind!

1. At the time of filling application, don't do mistake in filling details and save yourself from subsequent difficulties.

2. Interview is all about presence of mind.

Here is my experience.

Name: Chetan Nath

Venue: white house apartment, Patna

Time 1:00 pm

I reached 1 hr before the interview, had a conversation with other aspirant's, and then at sharp 1pm, they called us inside the campus.

Inside campus: they gave us a blank paper and asked us to write declaration about certificates that we are submitting.

Again After 15 min (1:30 pm) I was called for document verification, gave all xerox, got biometric verification done and all went smoothly. (Note: if u are lacking any document, don't be tensed, they give time to present document within stipulated time)

After document verification, at 2: pm sharp, some of us whose document verification got completed, was called to sit in waiting for chair outside panel room.

A guy before me went into the room and came out after 15 min. And now it was my turn. I immediately took a deep breath, prayed and when the bell rang, I went in by asking "may I come in please" (There were 4 male and one female sitting in panel)

I wished " good afternoon maim, good afternoon sir by nodding my head"

M3: what's your name?

Me: sir, my name is Chetan nath.

M3: (immediately after I told my name,) please have a seat.

M3: what does your father do?

Me: sir he is a shopkeeper of gift items.

M3: so how does he manage house finance?

Me: sir, he is very good at management skill and I learnt a lot from him.

M1: you have done MBA right, what is the importance of goal?

Me: sir, a goal is an objective that drives us into working towards it so that it can be achieved, goal making is very important not only for an organisation but also for individuals!

M2: what is management by principle?

Me: I waited for 5 seconds, I replied, sorry sir, I read about it and suddenly the answer is not striking my mind!

F1: ooohh

F1: what did you study for an interview?

Me: sir, I am sorry, maim, you can ask me from my subjects,

banking awareness or current affair, I hope I will try to reply all your question.

M3: wow you are so confident?

Me: sir, I am confident but not over confident, I can assure you that I will live upto bank expectation and go beyond expectations by bringing positive results.

F1: wow see he is confident!

F1: what is ERP?

Me: mam ERP means enterprise resource planning, it is a software used for resource planning and allocating resources for better output of an organisation.

M1: what is full form of NABARD?

Me: sir, NABARD stands for national Bank for agriculture and rural development.

M1: tell more about it?

Me: sir it's an apex financial institution, which governs regional rural banks or any bank that works for the uplifting rural economy. The chairman is H.N. bhanwala. Recently 40000 crores has been allocated for NABARD in the current budget.

All panel: sabash!! You are confident!

Me: (I was blushing.)

M2: what was your duty in your past work experience?

Me: sir, I have more than one year of work experience as a business analyst, where I had similar job responsibilities as that of a bank PO. As a business analyst, my duty was to bring in more business to my company by negotiating project and everything related to it, with clients who were mainly from America and Australia!

M3: then why did you leave that job?

Me: sir I used to work directly under the supervision of CEO and I had no career growth opportunities there but I enjoyed working there.

M3: tab CEO ko hta dete raaste se!!

All panel laughed !!

Me: (blushing,) no sir, I can also reach upto strategic and decision making level in the bank if u select me today !!

M2: see, he is confident.

Me: (I was wondering why they are always telling I am confident, am I behaving overconfident) I said, sir, I am natural enthusiastic and committed for bank now.

F1: how much marks are you expecting in mains?

Me: (immediately replied,) around 100+

Whole panel: nice, you are so confident.

Me: (I thought, oh why they always say I am confident)

M3: OK Chetan, you can go now. All the best!!

Me: thank you, sir, thank you ma'am. (While leaving chair, I said " it was nice conversation sir with blushing smile")

That's it.

Kindly let me know how is my interview?

Thanks to all... Wish you ALB

Exclusive Interview of Ravi Shankar Singh

1st Rank (AIR) Holder in SSC CGL 2015

Ques 1. How do you feel after getting the Job in SSC and that too with AIR 1?

Well, Since My CGL mains exam went well, I was sure of my selection but I didn't expect Rank 1. I was quite surprised and I was very happy that my effort and dedication paid off nicely. Actually, success is never achieved over night, it is the combination of many small things such as meticulous planning, excellent execution of plans and a never give up Attitude.

Ques 2. Tell me something about yourself and your family background?

Well, I come from a small town Aurangabad in Bihar. I finished my schooling from Delhi Public School, Bokaro S. City, and after that I went to IIT Khargapur (B.Tech+M.Tech Dual degree course).

Ques 3. When and why you decided to go for the preparation for SSC?

I have always been fascinated how I can make a difference in the life of masses and the society in general. In that context, I knew that I would like to work in a reputed government job, where I will be actually touching the live of common people and will be in a position to contribute towards society. So, even when I was doing my engineering from IIT, I was clear that eventually I would like to prepare for SSC or Civil services and would like to join at a reputed post in central government.

Ques 4. What was your daily schedule when you started your preparations? How much time did you give to your studies?

I feel one has to be very disciplined, when one is preparing for a serious competition like SSC CGL. So, I planned my studies very meticulously and specifically, I made a weekly plan. I defined how much time I would be devoting (50 hours per week) and what all items I want to cover in a week. Then I followed this schedule very rigorously. Mostly, I did self-preparation along with help of supplementary online study material and test series.

Ques 5. How did you prepare for your Tier-I paper?

As I already had a strong Maths background, I just focused on practicing from previous year papers and mocks, all the while devising time-saving techniques (tricks) for different kind of problems, which really came in handy during the exam. For English, I focused on basic rules of grammar and tried to

incorporate English as much as I could in my daily life, e.g. reading extensively, conversing with friends in English etc. Reasoning, again, is mostly a thing of practice.

Ques 6. Did you adopt any specific strategy for GS?

Yes. General studies is a very vast area and one need to be very selective in preparing for GS. Mostly, I followed NCERT text books for History, Geography & Science etc. As a strategy, I paid more attention to the more important pieces of information, and filtered out unnecessary things that are least likely to be asked. I will suggest GS section can play a very critical role because you can do GS questions very fast in the exam and hence ROI with respect to time devoted in very high.

Ques. 7 How did you prepare for the Mains Examination?

SSC CGL mains exam has two subjects. English and Quant. 200 marks each. Now a days level of SSC Mains questions is almost the same as SSC CGL Pre. So, you need not read anything extra for that. Only thing is that you need to practice a lot while learning to apply tricks. Specifically for English, I made word lists from Hindu Newspaper and previous year questions. These vocab notes helped a lot in vocab related questions in the mains exam. For grammar, I followed Wren & Martin grammar book, it's a really good book and complete grammar book for all competitive exams. Rest I practiced from mock tests and test series regularly and it created huge difference in my selection. Remember friends, there is no substitute for hard work. You've to take the pain head on to enjoy the glory forever. So to all those who thinks it is impossible to get a govt job, I would urge to take the plunge and just give your best shot, trust me you'll not regret this. Your hard work will never go waste. Don't settle, till you make it.

Ques. 8 Is attempting Test Series a good option for students?

Definitely. Given the fact that SSC CGL is now conducted online, It's very important to familiarize yourself with the online pattern. The familiarity with computer operation, managing time and knowing the question type are few factors that need to be kept in mind. Your studies through textbooks and regular assessment through mocks should go hand-in-hand. I would recommend to all the students who are dreaming to get a govt. job to follow a standard and up to date online test series and practice a lot.

Ques. 9 Given the recent boom in online initiatives to support an aspirant, which were the platforms that you find useful enough during your course of preparation.

We are in the era of technology. There are various website and apps, which can be really helpful for SSC CGL preparation. Adda247 App is a very useful tool for on-the-go preparation. Among various things, the app contains quizzes for each subject (topic wise) and learning videos. These are very helpful. In fact, I will also suggest that you can join Adda247 Online Test Series for SSC CGL preparation.

Ques. 10 Is it your first attempt in SSC?

Yes, this was my first attempt.

Ques. 11 Please share some tips for our readers.

My first suggestion would be to figure out what kind of life you want to lead, what kind of career you want for yourself. Then make a practical and achievable plan for it. For SSC CGL exam. First students should know the exam pattern and nature of the exam. In SSC exam Out of 600 marks (tier-1 + tier-2), English and math have 500 marks. So students, need to focus on these two

subjects a lot. But at the same time, other subjects should not be ignored, as they can prove to be the make-or-break factor.

Ques. 12 SSC exam requires long hours of constant study. How did you maintain your tempo and what did you do to break the monotony of preparation?

As I said before, it's equally important to take care of your body and mind. Mind is like a machine and it need some rest to work properly. I used to try some yoga techniques to calm myself. Exercise keep the body fit and refreshed. Discipline is important for all walk of life. These competitive exams are very demanding, so find your own way to calm yourself.

Ques. 13 Now, what's next after SSC?

Well, very soon I am going to join as Inspector in Income Tax Department Delhi and I am excited to learn new things and start serving the society. I have also been preparing for UPSC Civil Services Examination and working hard for it. I would suggest to all my friends out there who are trying their best to get the coveted job, not to lose focus, stay informed and keep going until you get the elusive job.

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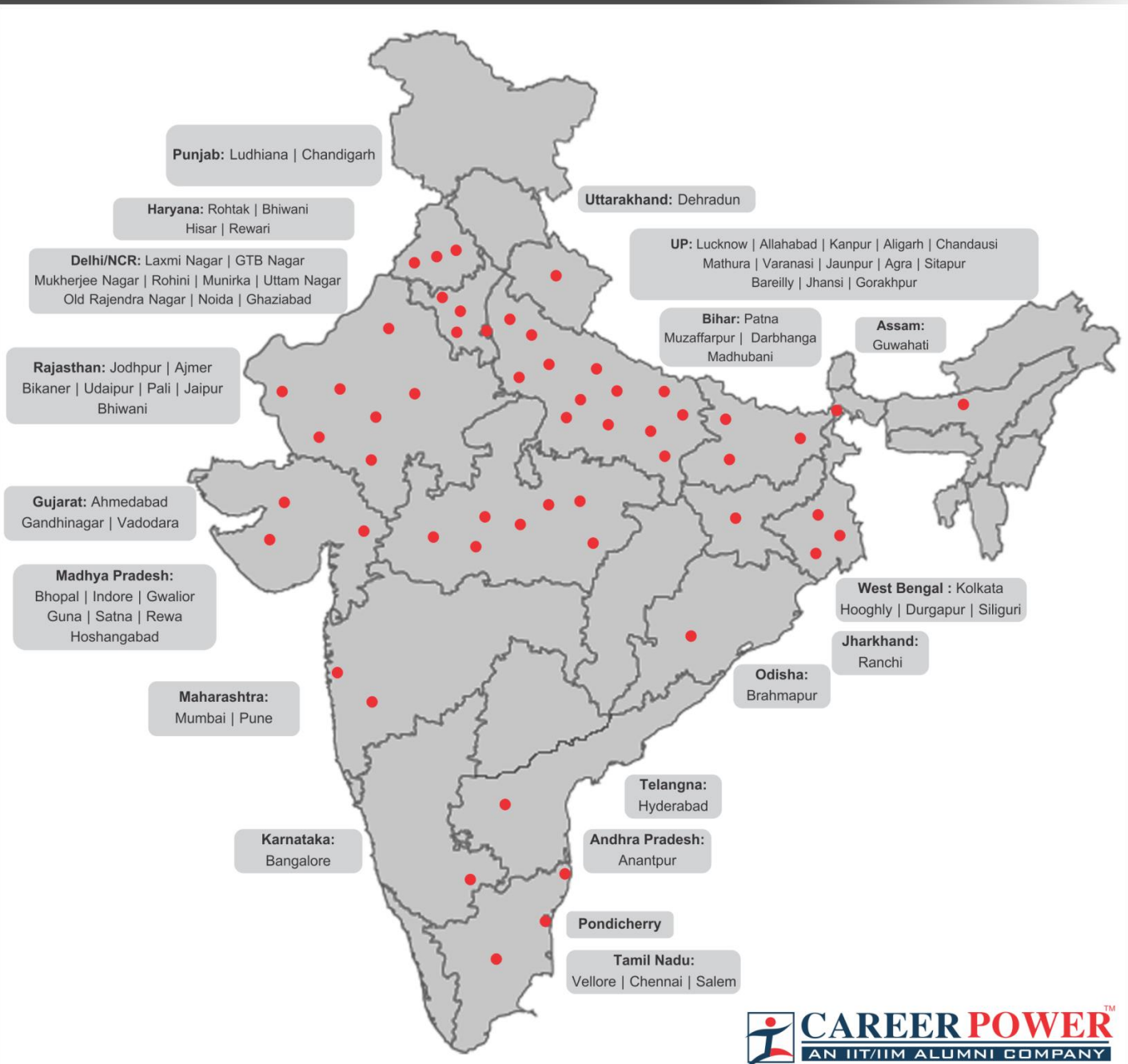


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SSC CGL Tier I 2017: Practice Set

REASONING ABILITY

Directions (1-4): Select the related words/ letters/ numbers from the given alternatives.

- Light : Darkness :: knowledge : ?
 (a) Ignorance (b) intelligence
 (c) brightness (d) genius
- Scissors : cloth :: ?
 (a) pen : ink (b) Razor : beard
 (c) Furnace : Smoke (d) Nail : hammer
- KML : NPO :: CED : ?
 (a) EGF (b) GHF
 (c) FHG (d) HGF
- 342 : 453 :: 831 : ?
 (a) 942 (b) 720
 (c) 922 (d) 740

Directions (5-7): Find the odd numbers/letters/ words from the given alternatives.

- (a) (35, 56) (b) (44, 68)
 (c) (24, 44) (d) (32, 26)
- (a) CFD (b) GJH
 (c) KNM (d) JMK
- (a) AT (b) HK
 (c) CF (d) JQ

Directions (8-10): In the following questions, select the missing number/letters from the given options.

- 198, 194, 185, 169, ?
 (a) 92 (b) 112
 (c) 136 (d) 144
- 2, 7, 27, 107, 427, ?
 (a) 1262 (b) 1707
 (c) 4027 (d) 4207
- AZY, BUT, CXW, DWV, ?
 (a) EVA (b) EVU
 (c) VEU (d) VUE

Direction (11-12): In the following questions, which one set of letters when sequentially placed at the gaps will complete the given letter series?

- a_ca_bcaa_b_a_bbc_
 (a) babcac (b) bcabca
 (c) bbacca (d) baccab
- _ba_bab_babb_b
 (a) b a a a (b) a b b b
 (c) b a b b (d) a b a b
- If MINERAL is written as QRSTUVW and SOUND is written as ABCSD, then how will READER be written in the same code?
 (a) SBF EFS (b) UTVD TU
 (c) TUDV UT (d) QDZCDQ

14. Pointing towards a woman in the picture, Sarita Said. "She is the mother of Neha whose father is my son." How is Sarita related to the woman in the picture?

- (a) Mother in law (b) Aunt
 (c) Cousin (d) none of these

Directions (15): In each of the following questions, if the given interchanges are made in signs and numbers, which of the four equations would be correct?

15. Given interchanges: Signs + and – and numbers 4 and 8.

- (a) $4 \div 8 - 12 = 16$ (b) $4 - 8 + 12 = 0$
 (c) $8 \div 4 - 12 = 24$ (d) $8 - 4 \div 12 = 8$

Directions (16) : In each of the following questions, arrange the given words in a meaningful sequence and then choose the most appropriate sequence from amongst the alternatives provided below each question:

1. Presentation 2. Recommendation
 3. Arrival 4. Discussion
 5. Introduction
 (a) 3, 5, 1, 4, 2 (b) 3, 5, 4, 2, 1
 (c) 5, 3, 1, 2, 4 (d) 5, 3, 4, 1, 2

17. A man is performing yoga with his head down and legs up. His face is towards the west. In which direction will his left hand be?

- (a) North (b) South
 (c) East (d) West

Directions: (18-19) find out the missing number from the given.

18.

15	17	19
11	13	15
104	120	?

- (a) 136 (b) 148
 (c) 150 (d) 164

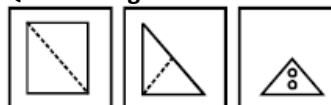
19.

10	8	12
8	6	8
4	8	10
42	56	?

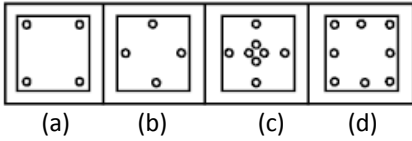
- (a) 40 (b) 54
 (c) 68 (d) 92

20. A square sheet of paper has been folded and punched as shown in the following series of figures. How will it appear when opened?

Question Figure:



Answer Figures:

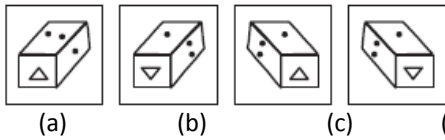


21. **Directions:** If a mirror is placed on the line MN, then which of the answer figures is the correct image of the given question figure?

Question Figure:



Answer Figures:



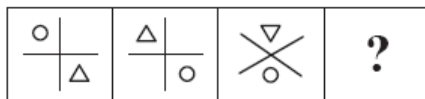
22. How many triangle, there in the following figure?



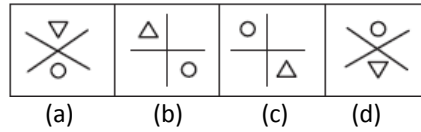
- (a) 15 (b) 12
(c) 14 (d) 16

23. In the below question figures, there is relation between the first two figures. Following this relation, which of the answer figures can be derived from third figure among question figures?

Question Figures:

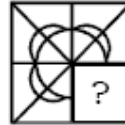


Answer Figures:

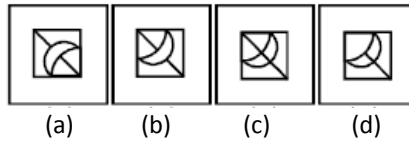


24. In Which one of the answer figures will complete the question figure?

Question Figures:

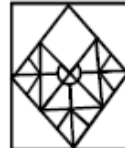


Answer Figures:

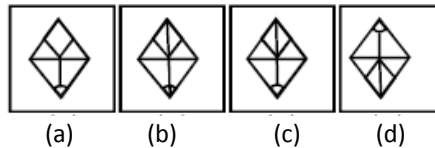


25. Which one of the answer figures will complete the question figure?

Question figure:



Answer Figures:



GENERAL KNOWLEDGE

26. Among the following, who is given the credit of propagating Jainism in South India?
(a) Sudharma (b) Indrabhuti
(c) Bhadrabahu (d) Sthulabhadra
27. Which Rock Edict of Ashoka provides a description of the horrors of Kalinga War?
(a) 13th Rock Edict (b) Kalinga Edict at Dhau
(c) The Edict at Jaugada (d) 10th Rock Edict
28. Who were the first kings to issue gold coins in India?
(a) Mauryas (b) Indo-Greeks
(c) Guptas (d) Kushans
29. Match List-I with List-II and select the correct answer using the codes given below the lists

List-I

List-II

- A. Niger 1. Egypt
B. Kasai 2. South Africa
C. Orange 3. Zaire

D. Nile

4. Mali

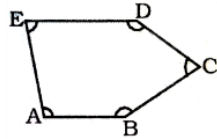
Codes

- | | A | B | C | D |
|-----|---|---|---|---|
| (a) | 4 | 3 | 1 | 2 |
| (b) | 3 | 4 | 2 | 1 |
| (c) | 3 | 4 | 1 | 2 |
| (d) | 4 | 3 | 2 | 1 |

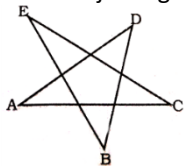
30. At which one of the following place East-West Corridor connecting Silchar and Probandar and North-South Corridor connecting Srinagar and Kanyakumari, intersect each other?
(a) Jhansi (b) Agra
(c) Jabalpur (d) Nagpur
31. In which of the following state is Kakrapar nuclear power station located?
(a) Karnataka (b) Tamil Nadu
(c) Maharashtra (d) Gujarat

32. The first session of the Constituent Assembly was held in
 (a) New Delhi (b) Mumbai
 (c) Kolkata (d) Lahore
33. Who wrote the book "The Story of the Integration of the Indian States"?
 (a) B N Rao (b) C Rajagopalachari
 (c) Krishna Menon (d) VP Menon
34. The Constitution of India is republican because it
 (a) provides for an elected President
 (b) provides for adult franchise
 (c) contains a bill of rights
 (d) has no hereditary elements
35. Questions of disqualification of member of the Parliament except in case of defection have to be decided by
 (a) The Election Commission in consultation with the Speaker of the Lok Sabha
 (b) The Speaker or the Chairman of the respective House in consultation with the Election Commission
 (c) The President, according to the opinion of the Election Commission
 (d) The Supreme Court
36. Question Hour in the Parliament refers to
 (a) The lunch hour after the sitting
 (b) The last hour of the sitting
 (c) The first hour of the sitting
 (d) The second hour of the sitting
37. Branch of biology deals with extinct organisms
 (a) Palynology (b) Phylogeny
 (c) Paleontology (d) Palaeobotany
38. The vitamin which is generally excreted by humans in urine is
 (a) Vitamin A (b) Vitamin D
 (c) Vitamin C (d) Vitamin E
39. Bone ossification test is conducted to ascertain human
 (a) Brain Efficiency (b) Tentative age
 (c) Tentative height (d) Drug Addiction
40. Which of the following cannot be emitted by radioactive substances during their decay?
 (a) Electrons (b) Protons
 (c) Neutrons (d) Helium
41. Which one of the following reactions is the main cause of the energy radiation from the Sun?
 (a) Fusion reaction (b) Fission reaction
 (c) Chemical reaction (d) Diffusion reaction
42. Which of the following is not a Constitutional organ?
 (a) Election Commission (b) Finance Commission
 (c) Inter-State Council (d) Planning Commission
43. The pashmina is a variety of wool obtained from
 (a) Sheep (b) Cow
 (c) Goat (d) Horse
44. Consider the following statements
 I. Dry ice is the solid form of CO_2
 II. Dry ice is used primarily as a cooling agent
 III. Water ice is colder than dry ice.
 Which of the statements given above is/are correct?
 (a) I Only (b) II Only
 (c) I and II (d) I, II and III
45. Ustad Bismillah Khan was an exponent of
 (a) Tabla (b) Shehnai
 (c) Sarod (d) Flute
46. Sanjay Gandhi National park is located at
 (a) Gangtok (b) Nokerk
 (c) Koraput (d) Mumbai
47. In which Five Year Plan, Economic Development rate was maximum?
 (a) First Five Year Plan (b) Sixth Five Year Plan
 (c) Tenth Five Year Plan (d) Fourth Five Year Plan
48. Implicit cost is otherwise called as
 (a) imputed cost (b) accounting cost
 (c) opportunity cost (d) economic cost
49. When is the international Migrants Day observed?
 (a) December 18 (b) January 25
 (c) October 24 (d) November 20
50. In vacuum, the speed of light
 (a) depends on its wavelength
 (b) depends on its frequency
 (c) depends on its intensity
 (d) neither depends on its wavelength, frequency nor intensity

QUANTITATIVE APTITUDE

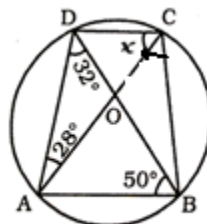
51. The numbers of the sequence 56, 72, 90, 110, 132, 154 form a pattern. Which of them is a misfit in the pattern?
 (a) 72 (b) 110
 (c) 132 (d) 154
52. If \oplus is an operation such that $a \oplus b = 2a$ when $a > b$
 $= a + b$ when $a < b$
 $= a^2$ when $a = b$,
 then, $\left[\frac{(5 \oplus 7) + (4 \oplus 4)}{3(5 \oplus 5) - (15 \oplus 11) - 3} \right]$ is equal to:
 (a) $\frac{1}{3}$ (b) $\frac{14}{23}$
53. In the adjoining figure:
 $\angle ABC + \angle BCD + \angle CDE + \angle DEA + \angle EAB =$
- 
- (a) 360° (b) 540°
 (c) 720° (d) none of these

54. In the adjoining figure : $\angle A + \angle B + \angle C + \angle D + \angle E$



- (a) 900° (b) 720°
 (c) 180° (d) 540°
55. The first period of a class starts at 10: 30 hours and fourth ends at 13 : 45 hours. If periods are of equal duration and after each period a break of 5 minutes is given to the students, the exact duration of each period is :
- (a) 35 minutes (b) 42 minutes
 (c) 45 minutes (d) 40 minutes
56. The ratio of an interior angle to the exterior angle of a regular polygon is 5 : 1. The number of sides of polygon is :
- (a) 10 (b) 11
 (c) 12 (d) 14
57. The average of 5 consecutive integers starting with 'm' is n. what is the average of 6 consecutive integers starting with (m + 2)?
- (a) $\frac{2n+5}{2}$ (b) (n + 2)
 (c) (n + 3) (d) $\frac{2n+9}{2}$
58. A point O in the interior of a rectangle ABCD is joined with each of the vertices A, B, C and D. Then :
- (a) $OB + OD = OC + OA$ (b) $OB^2 + OA^2 = OC^2 + OD^2$
 (c) $OB \cdot OD = OC \cdot OA$ (d) $OB^2 + OD^2 = OC^2 + OA^2$
59. I is the incentre of a triangle ABC. If $\angle ABC = 65^\circ$ and $\angle ACB = 55^\circ$, then the value of $\angle BIC$ is
- (a) 130° (b) 120°
 (c) 140° (d) 110°
60. A can complete a piece of work in 10 days, B in 15 days and C in 20 days. A and C worked together for two days and then A was replaced by B. In how many days, altogether, was the work completed?
- (a) 12 (b) 10
 (c) 6 (d) 8
61. The radius of the base and height of a metallic solid cylinder are r cm and 6 cm respectively. It is melted and recast into a solid cone of the same radius of base, the height of the cone is :
- (a) 54 cm (b) 27 cm (c) 18 cm (d) 9 cm
62. Two pipes A and B can fill a water tank in 20 and 24 minutes respectively and a third pipe C can empty at the rate of 3 gallons per minute. If A, B and C opened together fill the tank in 15 minutes, the capacity (in gallons) of the tank is:
- (a) 180 (b) 150
 (c) 120 (d) 60
63. If $0^\circ < \theta < 90^\circ$, the value of $\sin \theta + \cos \theta$ is
- (a) equal to 1 (b) greater than 1
 (c) less than 1 (d) equal to 2

64. If the perimeter of a right-angled isosceles triangle is $(4\sqrt{2} + 4)$ cm, the length of the hypotenuse is:
- (a) 4 cm (b) 6 cm
 (c) 8 cm (d) 60 cm
65. If m and n are positive integers and (m - n) is an even number, then $(m^2 - n^2)$ will be always divisible by
- (a) 4 (b) 6
 (c) 8 (d) 12
66. A fan is listed at Rs. 1,400 and the discount offered is 10%. What additional discount must be given to bring the net selling price to Rs. 1,200?
- (a) $16\frac{2}{3}\%$ (b) 5%
 (c) $4\frac{16}{21}\%$ (d) 6%
67. If the radii of two circles be 6 cm and 3 cm and the length of the transverse common tangent be 8 cm, then the distance between the two centres is
- (a) $\sqrt{145}$ cm (b) $\sqrt{140}$ cm
 (c) $\sqrt{150}$ cm (d) $\sqrt{135}$ cm
68. The areas of two equilateral triangles are in the ratio 25 : 36. Their altitudes will be in the ratio:
- (a) 36 : 25 (b) 25 : 36
 (c) 5 : 6 (d) $\sqrt{5} : \sqrt{6}$
69. If O is the centre of the circle then 'x' is:



- (a) 72° (b) 62°
 (c) 82° (d) 52°
70. The angles of a triangle are in Arithmetic Progression. The ratio of the least angle in degrees to the number of radians in the greatest angle is $60 : \pi$. The angles in degrees are
- (a) $30^\circ, 60^\circ, 90^\circ$ (b) $35^\circ, 55^\circ, 90^\circ$
 (c) $40^\circ, 50^\circ, 90^\circ$ (d) $40^\circ, 55^\circ, 85^\circ$
71. The milk and water is a mixture are in the ratio 7 : 5. When 15 litres of water are added to it, the ratio of milk and water in the new mixture becomes 7 : 8. The total quantity of water in the new mixture is
- (a) 35 litres (b) 40 litres
 (c) 60 litres (d) 96 litres
72. Rs. 2010 are to be divided among A, B and C in such a way that if A gets Rs. 5 then B must get Rs. 12 and if B gets Rs. 4 then C must get Rs. 5.50. The share of C will exceed that of B by
- (a) Rs. 620 (b) Rs. 430
 (c) Rs. 360 (d) Rs. 270
73. A man buys a field of agricultural land for Rs. 3,60,000. He sells one-third at a loss of 20% and two-fifths at a gain of

25%. At what price must he sell the remaining field so as to make an overall profit of 10%?

- (a) Rs. 1, 00, 000 (b) Rs. 1, 15, 000
(c) Rs. 1, 20, 000 (d) Rs. 1, 25, 000

74. A train passes a platform 90 metre long in 30 seconds and a man standing on the platform in 15 seconds. The speed of the train is:

- (a) 12. 4 kmph (b) 14.6 kmph
(c) 18.4 kmph (d) 21.6 kmph

75. The height of a right prism with a square base is 15 cm. If the area of the total surfaces of the prism is 608 sq. cm, its volume is

- (a) 910 cm³ (b) 920 cm³
(c) 960 cm³ (d) 980 cm³

ENGLISH LANGUAGE

Directions (76-78): In these questions, four alternatives are given for the idiom/phrase given in **bold** in the sentence. Choose the alternative which best expresses the meaning of the idiom/phrase given in **bold**.

76. The director's ideas for the development of the company are **all moonshine**.

- (a) outdated (b) exemplary
(c) nonsense (d) superficial

77. He doesn't waste time now, **he means business**.

- (a) Start a business (b) Become busy
(c) to be serious (d) to absorb in studies

78. The Chief Guest **spoke by the card** in the function.

- (a) Speak aggressively
(b) Speak precisely and to the point
(c) Speak line by line from the paper
(d) Speak loudly

Directions (79-80): In these questions, out of the four alternatives, choose the one which best expresses the **meaning** of the word given in **bold**.

79. **Caterwaul**

- (a) Serve (b) Howl
(c) Scribble (d) Coax

80. **Writhe**

- (a) squirm (b) garland
(c) denigrate (d) linger

Directions (81-82): In these questions, choose the word **opposite** in meaning to the word given in **bold**.

81. **Garish**

- (a) gaudy (b) putrid
(c) decent (d) subservient

82. **Evanescent**

- (a) Clean (b) Tight
(c) Eternal (d) Cheap

Directions (83-85): In the following questions, out of the four alternatives choose the one which can be substituted for the given words/sentence.

83. Willful and persistent resistance to lawful authority

- (a) contumacy (b) insolence
(c) supercilious (d) obstinacy

84. Rescue of a wrecked ship or cargo

- (a) salvage (b) forfeit
(c) yacht (d) shred

85. A poem in praise

- (a) Elegy (b) Sonnet
(c) Pun (d) Ode

Directions (86): In these questions, four words are given out of which only one is **correctly spelt**. Find that **correctly spelt** word.

86. (a) assasination (b) assassination
(c) asaassination (d) asasination

Directions:(87-89): In these questions, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four alternatives.

87. I will be leaving for Delhi tonight and _____ to return by this weekend.

- (a) plan (b) going
(c) likely (d) making

88. We are witnessing a cottage industry that is _____ on poverty, mostly.

- (a) leading (b) deteriorating
(c) thriving (d) improving

89. It is difficult for a simple person to see through her _____ schemes.

- (a) artistic (b) artful
(c) aesthetic (d) No improvement

Directions: (90-92): In these questions, read each sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence. The number of that part is the If there is no error, the answer is (D). (Ignore errors of Punctuation, if any.)

90. He repented to have been idle for years.

- (a) He repented to (b) Have been idle
(c) For years (d) No error

91. Few people would support his proposal. Would they?

- (a) Few people would (b) Support his proposal
(c) Would they? (d) No error

92. Raju along with his family goes for morning walk every day in the nearby park.

- (a) Raju along with his family (b) goes for morning walk
(c) every day in the nearby park (d) No error

Directions:(93-95):In these questions, a sentence or a part of sentence is underlined. Below are given alternatives to the underlined part which may **improve the sentence**. Choose the

correct alternative. In case no improvement is needed, your answer is (D).

93. The French soon **got used to live** in the country.

- (a) Were used to live (b) Got used to living
(C) Had used to live (d) No improvement

94. After the heavy rains last week, the water in the lake **raised another two feet.**

- (a) would raise another two feet.
(b) raised another two feet
(c) rose another two feet
(d) No improvement

95. Although he was the most friendly of all present and **different from the others, he hadn't hardly any friends except me.**

- (a) different than the others, he hardly had any friends except me
(b) different than the others, he hardly had any friends except I
(c) different from the others, he hardly had any friends except me
(d) No Improvement

Directions (96-100):Read the passages carefully and choose the best answer to each question out of the four alternatives.

The United States has a lengthy history of going to war. It is a nation born from war. Pick any year since 1776, and the odds of America being involved in at least one war is over 90%. Every US President has faced war. Still, it may surprise you to hear that the US government is at war with a fish. Asian carp were introduced to American waters during the 1970s. Southern fish farmers began importing them to help clean their ponds. Asian carp are phenomenal cleaners. Unfortunately, it didn't take too long for them to escape from these ponds, perhaps from flooding, and get into the Mississippi River. From there they have followed their natural tendency to swim upstream. This tendency may lead them into the Great Lakes and Canada, a nightmare scenario for fisherman. Asian carp are large fish. One species, the silver carp, can grow to be 100 pounds. But despite their size, they feed from the bottom of the food chain. That means that they eat plankton and algae. A one hundred pound fish can eat an awful lot of sea scum, and some of it is toxic. The carp are resistant to the toxins, but we aren't. Some Asian carp are hazardous to eat because they have so many algal toxins in their systems. They also have lots of tiny bones in their meat, which makes them difficult to prepare. Asian carp is not a popular delicacy.

Introducing the Asian carp into waters that have not known them can be devastating. Beneath the surface of the water is a unique ecosystem. This system rests delicately on a balance that has evolved over millions of years. Then along come these big, hungry bottom feeders to mess up everything. They breed rapidly and densely populate the waters. Worse still, they compete with the native bottom feeders. The native bottom

feeders are smaller. Larger, tastier fish like salmon eat them. The native bottom feeders are an important part of the ecosystem. When the Asian carp outperform them, the whole food chain suffers, all the way up to the people.

Not only do Asian carp mess up the food chain, they mess up people. Seriously. An Asian carp will bust you in head. Remember that silver carp can be 100 pounds. There is a reason why they are also known as "flying carp." This particular species of Asian carp has a tendency to jump when frightened. They can jump up to ten feet in the air, and the sound of boat motors frightens them. Watch out watersportists! In 2003 a woman jetskier collided with one and broke her nose and a vertebra. She almost drowned. In 2008 a teenager broke his jaw on one while tubing. Many others have been injured by these flying logs. Asian carp pose a serious threat to water skiers and boaters. In 2007 the U.S. Department of the Interior declared all silver carp to be an injurious species. In 2010, the State of Michigan passed the \$30 million CARPACT. In 2012 Congress approved the "Stop Invasive Species" act, legislation written solely to protect the Great Lakes from Asian carp. The government has been on the offensive against these large-bellied invaders.

But Asian carp are difficult to catch. Since they eat from the bottom, they do not go for lures or baits like most large fish. The best way to stop them is to keep them out. The Great Lakes are connected to the Mississippi River through the 28-mile Chicago Sanitary and Ship Canal. For Chicagoans, it is the final point of **resistance**. A series of multimillion-dollar electrical barriers have been built along the canal. The barriers are effective at keeping adult carp at bay, but some fear that baby carp may pass through. The United States Army Corps of Engineers has been deployed along with EPA. In 2009 they poisoned the entire canal with rotenone, a chemical that kills fish. The \$3 million operation netted over 90 tons of dead fish, and a single carp. Some think that Great Lakes must be cut off from the Mississippi River. The Michigan Attorney General sued to have the canal closed. The Ontario government and some Great Lake states have also taken legal action. But the courts have been persuaded by the value of the canal as a shipping conduit thus far. In the meantime, the barriers continue to hold, but how long can they? The carp have the Great Lakes under siege. Is this a war that we are destined to lose?

96. Which is **not** a reason why Asian carp is an unpopular menu item?

- (a) It is hard to prepare because of all the little bones.
(b) They are a very fattening fish.
(c) Some of them are toxic and unsafe to eat.
(d) They are bottom feeders.

97. Which statement would the author most likely **disagree** with?

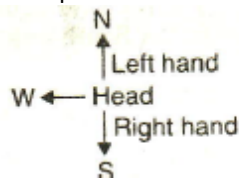
- (a) Asian carp outperform many native bottom feeders.
(b) Asian carp could disrupt the ecosystem in Lake Michigan.
(c) One species of Asian carp is the silver carp.

- (d) Asian carp are disliked because they eat salmon.
98. Which best describes the word **resistance** as it is used in the third paragraph?
- To be allergic to something
 - To be unaware of something
 - To be unaffected by something
 - To be attracted or drawn to something
99. Which of the following statements is **false**?
- Silver carp have been declared an "injurious species" by the government.
 - Silver carp are also known as "flying carp."
 - Silver carp can grow to be 100 lbs.
 - Silver carp can jump up to twenty feet in the air.
100. Which title best represents the author's main purpose in writing this text?
- America: A Nation at War
 - Asian Carp: Threatening the Great Lakes
 - Asian Carp: A Beautiful and Powerful Fish
 - Misunderstood: Protect and Defend the Asian Carp

Solutions:

- (a) Light wards off darkness. Similarly knowledge wards off ignorance.
 - (b) Scissors are used to cut cloth. Similarly, razor is used to shave
 - (c) $K + 3 = N$, $M + 3 = P$, $L + 3 = O$
Similarly
 $C + 3 = F$, $E + 3 = H$, $D + 3 = G$
 - (a) in all digit add +1 then become the resulted number
 - (b) Except (b), in each group, last digit is double of first digit and middle digits are same.
 - (c) Except (c), in each group, corner letters are consecutive and middle letter is 2 steps forward of the rightmost letter.
 - (a) Except (a), in each group, both letters are consonants.
 - (d): The pattern is -4, -9, -16, i.e. -2^2 , -3^2 , -4^2 , So, missing term = $169 - 5^2 = 169 - 25 = 144$.
 - (b): The pattern is $+(5*1^2)$, $+(5*2^2)$, $+(5*4^2)$, $+(5*8^2)$, $+(5*16^2)$
 - (b): ^{1st} letter: $A - (+1) \rightarrow B$ $- (+1) \rightarrow C$ $- (+1) \rightarrow D$ $- (+1) \rightarrow E$
^{2nd} letter: $Z - (-5) \rightarrow U$ $- (+5-2) = +3 \rightarrow X$ $- (-3-2) = -1 \rightarrow W$ $- (+1-2) = -1 \rightarrow V$
^{3rd} letter: $Y - (-5) \rightarrow T$ $- (+5-2) = +3 \rightarrow W$ $- (-3-2) = -1 \rightarrow V$ $- (+1-2) = -1 \rightarrow U$
 - (a) ; The sequence given is abc/aabc/aabbc/aabbcc
 - : (b) The sequence given is ab/abb/abbb/abbbb
 - (b)
- | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|
| Letter | M | I | N | E | R | A | L | S | O | U | D |
| Code | Q | R | S | T | U | V | W | A | B | C | D |
- (a)
 - (b): On interchanging + and - and 4 and 8 in (b), we get the equation as: $8 + 4 - 12 = 0$ or $12 - 12 = 0$ or $0 = 0$ which is true.

16. (b)
17. (a): The posture of the man is as shown. Clearly, the left hand points towards North.



18. : (a) $15^2 - 11^2 = 104$; $17^2 - 13^2 = 120$; $19^2 - 15^2 = 136$
19. (d) $4 \times 8 + 10 = 42$; $8 \times 6 + 8 = 56$; $10 \times 8 + 12 = 92$
20. (c)
21. (c)
22. (a)
23. (d)
24. (c)
25. (c)
26. c 27. a 28. b
29. d 30. a 31. d
32. a 33. d 34. a
35. c 36. c 37. c
38. c 39. b 39. b
40. b 41. a 42. d
43. c 44. c 45. b
46. d 47. c 48. c
49. a 50. d

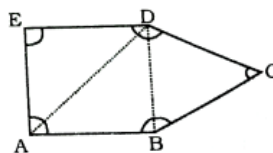
51. (d) the given sequence is based on the following pattern:

$$\begin{aligned}
 7 \times 8 &= 56 \\
 8 \times 9 &= 72 \\
 9 \times 10 &= 90 \\
 10 \times 11 &= 110 \\
 11 \times 12 &= 132 \\
 12 \times 13 &\neq 156, \text{ but } 154 \\
 \therefore 154 &\text{ is the wrong number.}
 \end{aligned}$$

52. (c) $a \oplus b = 2a$ if $a > b$
 $= a + b$ if $a < b = a^2$ if $a = b$

$$\begin{aligned}
 &\therefore \frac{(5 \oplus 7) + (4 \oplus 4)}{3(5 \oplus 5) - (15 \oplus 11) - 3} \\
 &= \frac{(5+7)+4^2}{(5+7)+4^2} \\
 &= \frac{3 \times 5^2 - 2 \times 15 - 3}{12 + 16} = \frac{28}{42} = \frac{2}{3} \\
 &= \frac{75 - 30 - 3}{42} = \frac{2}{3}
 \end{aligned}$$

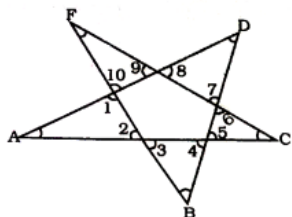
53. (b) Here
 $\angle ABC + \angle BCD + \angle CDE + \angle DEA + \angle EAB$



$$\begin{aligned}
 &= 3 [\text{sum of angles of triangle}] \\
 &= 3 \times 180^\circ = 540^\circ
 \end{aligned}$$

54. (c) Here

$$\begin{aligned} \angle A + \angle 1 + \angle 2 \\ = \angle B + \angle 3 + \angle 4 \end{aligned}$$



$$\begin{aligned} = \angle C + \angle 6 + \angle 5 = \angle D + \angle 6 + \angle 8 \\ = \angle E + \angle 9 + \angle 10 = 180^\circ \end{aligned}$$

$$\Rightarrow \angle A + \angle B + \angle C + \angle D + \angle E + \angle 1 + \angle 2 + \angle 3 + \angle 4 + \angle 5 + \angle 6 + \angle 7 + \angle 8 + \angle 9 + \angle 10 = 180^\circ \times 5 = 900^\circ$$

$$\text{Also } \angle 1 + \angle 2 + \angle 3 + \angle 4 + \angle 5 + \angle 6 + \angle 7 + \angle 8 + \angle 9 + \angle 10 = 720^\circ$$

$$\Rightarrow \angle A + \angle B + \angle C + \angle D + \angle E = 900^\circ - 720^\circ = 180^\circ$$

55. (c) Time interval between the first period and last (fourth) period = 1 : 45 pm. – 10 : 30 am.

= 3 hours 15 minutes

= Break after each period

= 5 minutes

∴ Total break = 15 minutes

∴ Time period of classes = 3 hours 15 minutes – 15 minutes

= 3 hours

∴ Exact duration of each period

= $\frac{3}{4}$ hour = 45 minutes.

56. (c) Sum of one interior angle and exterior angle = 180°

Ratio of one interior angle and exterior angle = 5 : 1

Each exterior angle

$$= \frac{1}{6} \times 180^\circ = 30^\circ$$

As sum of all exterior angle = 360°

Let n be number of sides

$$n \times 30 = 360$$

$$n = \frac{360}{30} = 12$$

57. (a) $m + m + 1 + m + 2 + m + 3 + m + 4 = 5n$

$$\Rightarrow 5m + 10 = 5n$$

$$\Rightarrow m + 2 = n$$

Required average

$$= \frac{m + 2 + m + 3 + m + 4 + m + 5 + m + 6 + m + 7}{6}$$

$$= \frac{6m + 27}{6}$$

$$= \frac{2m + 9}{2} = \frac{2(n - 2) + 9}{2} = \frac{2n + 5}{2}$$

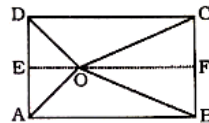
58. (d) Draw $EF \parallel AB$

In right angled $\triangle EOA$ and $\triangle OCF$

$$OA^2 = OE^2 + AE^2 \text{ and } OC^2 = OF^2 + CF^2$$

$$\therefore OA^2 + OC^2 = OE^2 + AE^2 + OF^2 + CF^2 \quad \dots (i)$$

In right angled $\triangle DEO$ and $\triangle OBF$



$$OD^2 = OE^2 + DE^2, OB^2 = OF^2 + BF^2$$

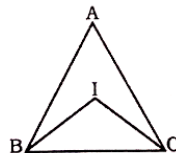
$$\Rightarrow OD^2 + OB^2 = OE^2 + OF^2 + DE^2 + BF^2 \quad \dots (ii)$$

As $FB = EA$ and $DE = CF$

Here from (i) and (ii)

$$OA^2 + OC^2 = OD^2 + OB^2$$

59. (b)



$$\angle IBC = \frac{1}{2} \angle ABC = \frac{65}{2} = 32.5^\circ$$

$$\angle ICB = \frac{1}{2} \angle ACB = \frac{55}{2} = 27.5^\circ$$

$$\therefore \angle BIC = 180^\circ - 32.5^\circ - 27.5^\circ = 120^\circ$$

60. (d) Work done by (A + C) in 2 days = $2 \left(\frac{1}{10} + \frac{1}{20} \right)$

$$= 2 \left(\frac{2+1}{20} \right) = \frac{6}{20} = \frac{3}{10}$$

$$\text{Remaining work} = 1 - \frac{3}{10} = \frac{7}{10}$$

(B + C)'s 1 day's work

$$= \frac{1}{15} + \frac{1}{20} = \frac{4+3}{60} = \frac{7}{60}$$

∴ Time taken by (B + C) to finish $\frac{7}{10}$ parts of the work

$$= \frac{60}{7} \times \frac{7}{10} = 6 \text{ days}$$

∴ Total time = 2 + 6 = 8 days

61. (c) Volume of the cylinder

$$= \pi r^2 \times h = \pi r^2 \times 6 = 6\pi r^2 \text{ cm}^3$$

Let the height of the cone be h cm.

$$\therefore \text{Volume of the cone} = \frac{1}{3} \pi r^2 h$$

According to the question.

Volume of the cone = Volume of the cylinder

$$\Rightarrow \frac{1}{3} \pi r^2 h = 6\pi r^2$$

$$\Rightarrow h = 18 \text{ cm.}$$

62. (c) let the capacity of the tank be x gallons.

Quantity of water filled in the tank in 1 minute when all the pipes A, B and C are opened simultaneously

$$= \frac{x}{20} + \frac{x}{24} - 3$$

According to the question.

$$\frac{x}{20} + \frac{x}{24} - 3 = \frac{x}{15}$$

$$\Rightarrow \frac{x}{20} + \frac{x}{24} - \frac{x}{15} = 3$$

$$\Rightarrow \frac{6x + 5x - 8x}{120} = 3$$

$$\Rightarrow 3x = 3 \times 120$$

$$\Rightarrow x = \frac{3 \times 120}{3} = 120 \text{ gallons}$$

63. (b) $Z = \sin\theta - \cos\theta$

$\Rightarrow Z^2 = \sin^2\theta + \cos^2\theta + 2\sin\theta \cdot \cos\theta$

$1 + 2\sin\theta \cdot \cos\theta$

$\because 0 < \theta < 90^\circ$

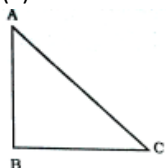
$\therefore 2\sin\theta \cdot \cos\theta < 1$

$\therefore 2\sin\theta \cdot \cos\theta < 1$

$\therefore Z^2 < 2$

$\Rightarrow Z < \sqrt{2}$

64. (a)



Let, ABC be a right-angled isosceles triangle where

$AB = BC = x$ and $\angle B = 90^\circ$.

$\therefore AC = \sqrt{x^2 + x^2} = \sqrt{2}x$

\therefore Perimeter of the triangle ABC

$= 4\sqrt{2} + 4$

$\Rightarrow x + x + \sqrt{2}x = 4\sqrt{2} + 4$

$\Rightarrow 2x + \sqrt{2}x = 4\sqrt{2} + 4$

$\Rightarrow 2x + \sqrt{2}x$

$2.2\sqrt{2} + \sqrt{2}.2\sqrt{2}$

$\Rightarrow x = 2\sqrt{2}$

\therefore Length of the hypotenuse

$= \sqrt{2}.x = \sqrt{2}.2\sqrt{2} = 4$ cm.

65. (a) $m - n = 2p$

$m + n = 2p$

$\therefore (m - n)(m + n) = 4p^2$

$\Rightarrow m^2 - n^2 = 4p^2$

66. (c) Marked price of the fan

= Rs. 1400

SP after allowing a discount of 10% = 90% of 1400

$= \frac{1400 \times 90}{100} = \text{Rs. } 1260$

Second discount

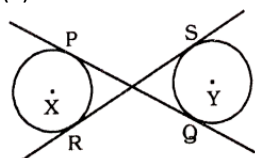
= Rs. $(1260 - 1200) = \text{Rs. } 60$

Let the second discount be $x\%$

$\therefore x\%$ of 1260 = 60

$\Rightarrow x = \frac{60 \times 100}{1260} = \frac{100}{21} = 4\frac{16}{21}\%$

67. (a)



Length of transverse tangent

$= \sqrt{xy^2 - (r_1 + r_2)^2}$

$\Rightarrow 8 = \sqrt{xy^2 - 9^2}$

$\Rightarrow 64 = xy^2 - 81$

$\Rightarrow xy^2 = 64 + 81 = 145$

$\Rightarrow XY = \sqrt{145}$

68. (c) The ratio of the areas of two similar triangles is equal to the ratio of squares of the corresponding altitudes.

Ratio of altitudes = $\frac{\sqrt{25}}{\sqrt{36}} = \frac{5}{6}$

69. (c) $\angle ACB = \angle ADB = 32^\circ$

$\angle ACD = \angle ABD = 50^\circ$

$\therefore x = \angle ACD = 82^\circ$

70. (a) Angles of triangle

$\Rightarrow (a - d)^\circ, a^\circ, (a + d)^\circ$

$\therefore a - d + a + a + d = 180^\circ$

$\Rightarrow 3a = 180^\circ$

$\Rightarrow a = 60^\circ$

$\therefore \frac{a-d}{a+d} = \frac{60}{180} = \frac{1}{3}$

$\Rightarrow \frac{60-d}{60+d} = \frac{1}{3}$

$\Rightarrow 180 - 3d = 60 + d$

$\Rightarrow 4d = 120^\circ$

$\Rightarrow d = 30^\circ$

\therefore Angles of triangle :

$a - d = 60^\circ - 30^\circ = 30^\circ$

$a = 60^\circ$

$a + d = 60 + 30 = 90^\circ$

71. (b) Let the quantity of milk in the mixture = $7x$ litres and that of water = $5x$ litres.

According to the question.

$\frac{7x}{5x+15} = \frac{7}{15}$

$\Rightarrow 56x = 35x + 105$

$\Rightarrow 56x - 35x = 105$

$\Rightarrow 21x = 105 \Rightarrow x = \frac{105}{21} = 5$

\therefore Required quantity of water

= $(5x + 15)$ litres

= $5 \times 5 + 15 = 40$ litres

72. (d) According to the question,

$A : B = 5 : 12 = 10 : 24$

$B : C = 4 : 5. 50 = 24 : 33$

$\therefore A : B : C = 10 : 24 : 33$

Sum of the ratios

= $10 + 24 + 33 = 67$

Difference between the shares of C and B

= Rs. $\left(\frac{33-24}{67} \times 2010\right)$

= Rs. $\left(\frac{9}{67} \times 2010\right) = \text{Rs. } 270$

73. (c) SP of total agricultural field

= Rs. $\left(360000 \times \frac{110}{100}\right)$

= Rs. 396000

SP of one-third of the field

$$= \frac{1}{3} \times 360000 \times \frac{80}{100}$$

= Rs. 96000

SP of $\frac{2}{5}$ th of the field

$$= \frac{2}{5} \times 360000 \times \frac{125}{100}$$

= Rs. 180000

∴ SP of the remaining field

= Rs. (396000–96000–180000)

= Rs. 120000

74. (d) Let the length of the train = x metres

According to the question,

Speed of the train

$$= \frac{x+90}{30} = \frac{x}{15}$$

$$\Rightarrow x+90=2x$$

$$\Rightarrow x=90\text{ m}$$

$$\therefore \text{Speed of train} = \frac{90}{15}$$

= 6 metre/second

$$= 6 \times \frac{18}{5} \text{ kmph} = \frac{108}{5} = 21.6 \text{ kmph}$$

75. (c) Total surface area of prism

= curved surface area = 2 × area of base

$$\Rightarrow 608 = \text{Perimeter of base} \times \text{height} + 2 \times \text{area of base}$$

$$\Rightarrow 608 = 4x \times 15 + 2x^2$$

(where x = side of square)

$$\Rightarrow x^2 + 30x - 304 = 0$$

$$\Rightarrow x^2 + 38x - 8x - 304 = 0$$

$$\Rightarrow x(x+38) - 8(x+38) = 0$$

$$\Rightarrow (x-8)(x+38) = 0$$

$$\Rightarrow x=8$$

$$\Rightarrow \text{Volume of prism} = \text{area of base} \times \text{height}$$

$$= 8 \times 8 \times 15 = 960 \text{ cu.cm.}$$

76. (C)

77. (C)

78. (B)

79. (B); Coax- Persuade, Woo

i. Scribble- write or draw something carelessly or hurriedly

80. (B); Writhe- squirm

i. Garland- wreath of flowers,

ii. Denigrate- diminish, disparage, slander

iii. Linger- stay for a long time (to be slow)

81. (B); Garish-Putrid

i. Gaudy- extravagantly bright or showy

ii. Subservient- prepared to obey others unquestioningly

82. (C); Evanescent- quickly fading or disappearing

83. (A); Insolence-rude and disrespectful behavior

i. Supercilious- arrogant, haughty, conceited, disdainful

84. (A); Forfeit- something that is lost or given up as punishment or because of a rule or law

i. Yacht- A large boat that is used for racing or pleasure

ii. Shred-A completely ruined condition

85. (D); Elegy- a poem for dead

i. Sonnet- a poem of fourteen lines using any of a number of formal rhyme schemes

ii. Pun-the use of words that are alike or nearly alike in sound but different in meaning

86. (B) Assassination- killing of a person for political reasons

87. (A)

88. (C); Thriving- flourishing

89. (B); Artful- clever or skilful, especially in a crafty or cunning way ("her artful wiles")

90. (B) repent take ing form of verb after itself

91. (D) no error

92. (B) use article 'a' before morning walk (a morning walk)

93. (B) Subject + got used to + Vingform

94. (C); Rise- to move upward (2nd form rose)

95. (C); different 'from', objective case comes after 'except'

96. (B)

97. (D)

98. (C)

99. (D)

100.(B)



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SSC CGL Tier -I Previous Year Paper : 30th August (Morning)

REASONING ABILITY

Direction (1-3): Select the related word/letters/number from the given alternatives.

- Flow : River :: Stagnant : ?
(a) Pond (b) Rain
(c) Stream (d) Canal
- AEIM : BFJN :: CGKO : ?
(a) DHLP (b) ZVRP
(c) BCDK (d) MPQR
- 24 : 60 :: 210 : ?
(a) 348 (b) 336
(c) 340 (d) 326

Direction (4-6): For the following questions. Find the odd word/letters/number pair from the given alternatives.

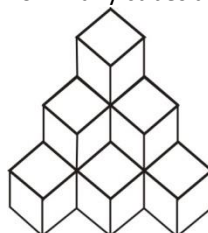
- (a) Shimla (b) Ooty
(c) Darjeeling (d) Agra
- (a) 64 (b) 900
(c) 343 (d) 1000
- (a) NSWX (b) KPSU
(c) HMQR (d) EJNO
- Arrange the following words as per order in the dictionary
1. Maternity 2. Matriarchy
3. Matchbox 4. Matricide
(a) 3, 1, 2, 4 (b) 4, 3, 1, 2
(c) 3, 4, 1, 2 (d) 1, 3, 4, 2
- A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.
EDBA, KJHG, QPNM, ?
(a) WVTS (b) WXUV
(c) WVST (d) WVTX
- A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.
463, 452, 439, 424, ?
(a) 407 (b) 413
(c) 419 (d) 411
- At present, the ratio between the ages of Arun and Deepak is 4:3. After 6 years, Arun's age will be 26 years. What is the age of Deepak at present?
(a) 12 years (b) 15 years
(c) 18 years (d) 25 years
- X is the husband of Y. W is the daughter of X. Z is the husband of W. N is the daughter of Z. What is the relationship of N to Y?
(a) Cousin (b) Niece
(c) Daughter (d) Grand daughter
- From the given words, select the word which cannot be formed using the letters of the given word.

DETERMINATION

- (a) DETENTION (b) DESTINATION
(c) TERMINATE (d) DOMINATE
- If GOODNESS is coded as HNPCODTR then GREATNESS will be coded as:
(a) HQZFBMFRT (b) HPFZUMERT
(c) HQEZUMFTR (d) HQFZUMFRT
- Complete the third equation on the basis of a certain system followed in the first two equations.
(1) $5*4*2*1 = 1425$ (2) $7*8*1*6 = 6817$
(3) $9*3*7*5 = ?$
(a) 3795 (b) 5397
(c) 5973 (d) 5379
- If '-' stands for division, '+' for multiplication, '÷' for subtraction and 'x' for addition, which one of the following equations is correct?
(a) $18 \div 3 \times 2 + 8 - 6 = 10$ (b) $18 - 3 + 2 \times 8 \div 6 = 14$
(c) $18 - 3 \div 2 \times 8 + 6 = 17$ (d) $18 \times 3 + 2 \div 8 - 6 = 15$
- Find missing pair of letters from given responses to replace?

AZ	BY	CX
DW	EV	FU
GT	?	IR

- (a) HR (b) HS
(c) HV (d) HU
- X walked 20 feet from A to B in the East direction. Then X turned to the right and walked 6 feet. Again X turned to the right and walked 28 feet. How far is X from A?
(a) 28 (b) 9
(c) 10 (d) 27
- Consider the given statement/s to be true and decide which of the given conclusions/assumptions can definitely be drawn from the given statement.
Statement: The situation calls for an immediate action
Assumptions: I. The situation is serious.
II. Immediate action is possible.
(a) only I is an assumption
(b) only II is an assumption
(c) Both I and II are assumptions
(d) Neither I or II is an assumption
- How many cubes are there in the diagram?

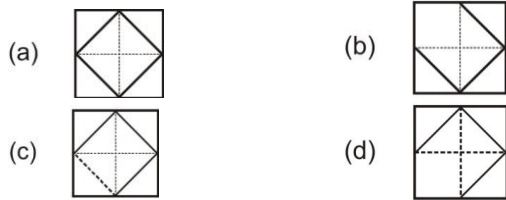
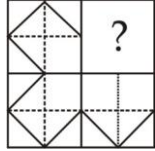


- (a) 10 (b) 12
(c) 8 (d) 6
20. Identify the diagram that best represents the relationship among classes given below

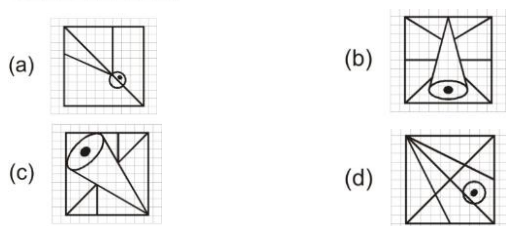
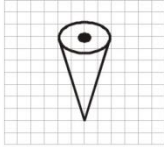
North America, United States of America, New York



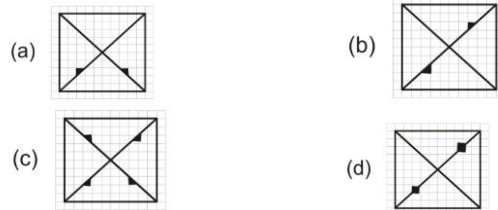
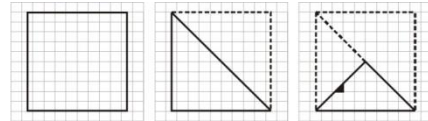
21. Which answer figure will complete the pattern in the question figure?



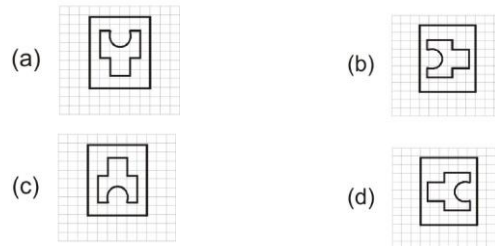
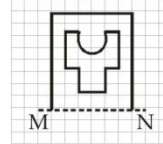
22. From the given answer figures, select the one in which the question figure is hidden/embedded.



23. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.



24. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



25. In the question, a word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., G can be represented by 04, 40, etc., and 'K' can be represented by 56, 75, etc.

You have to identify the set for the word 'HILL'

Matrix - I

Matrix - II

	0	1	2	3	4
0	C	D	E	F	G
1	F	G	C	D	E
2	D	E	F	G	C
3	E	F	G	C	D
4	G	C	D	E	F

	5	6	7	8	9
5	H	K	L	I	N
6	I	N	H	K	L
7	K	L	I	N	H
8	L	I	N	H	K
9	N	H	K	L	I

- (a) 56, 58, 03, 02
(c) 56, 62, 03, 02

- (b) 55, 77, 69, 85
(d) 57, 60, 10, 02

GENERAL KNOWLEDGE

26. Who among the following is not a member of the National Development Council?
(a) The Prime Minister
(b) The Member of NITI Aayog
(c) The Chief Ministers of States
(d) The President of India
27. The rate of tax increase as the amount of the tax base increases is called?
(a) Proportional tax (b) Progressive tax
(c) Regressive tax (d) Degressive tax
28. The supply-side economics lays greater emphasis on _____
(a) Producer (b) Global economy
(c) Consumer (d) Middle Man

29. The founding father of "Theory of bureaucracy" was?
 (a) F. W. Taylor (b) Max Weber
 (c) Elton Mayo (d) Herbert Simon
30. The United Nations Organisation came into existence in?
 (a) 1947 (b) 1950
 (c) 1945 (d) 1946
31. Abdul Fazal was the son of which Sufi saint?
 (a) Sheikh Mubarak (b) Hazarat Kwaja
 (c) Nasiruddin Chirag
 (d) Baba Qutubuddin Bakhtiyar Kaki
32. French revolution broke out in the year:
 (a) 1917 (b) 1911
 (c) 1789 (d) 1790
33. The song "Vande Mataram" occurs in the book _____
 (a) Geetanjali (b) Anandmath
 (c) Indian People
 (d) Poverty and Un British – Rule in India
34. Which mosquito is the carrier of Zika virus?
 (a) Culex (b) Aedes
 (c) Anopheles (d) Culiseta
35. Geothermal energy is maximum utilised in _____
 (a) Iceland (b) New Zealand
 (c) Russia (d) Japan
36. Root cap is derived from?
 (a) Dermatogen (b) Calyptrogen
 (c) Protoderm (d) Histogen
37. The blotting technique used to identify the isolated protein is _____
 (a) Northern blotting (b) Western blotting
 (c) Southern blotting (d) Cloning
38. Morphology of Chromosomes can be best studied at _____
 (a) Interphase (b) Prophase
 (c) Metaphase (d) Zygotene
39. The 'Choke' used with a tube light is basically ____
 (a) an inductor (b) a capacitor
 (c) a transformer (d) a resistor
40. Curie is an unit of _____
 (a) Radioactivity (b) energy of Gamma rays
 (c) intensity of Gamma rays (d) work function
41. In Networks, WEP stands for?
 (a) Wireless Equivalent Privacy (b) Wired Extra Privacy
 (c) Wired Equivalent Privacy (d) Wireless Embedded Privacy
42. For extinguishing fire, we use _____
 (a) Hydrogen (b) Carbon Monoxide
 (c) Carbon Dioxide (d) Marsh gas
43. The chemical name of quartz is _____
 (a) Calcium oxide (b) Calcium phosphate
 (c) Sodium phosphate (d) Sodium silicate
44. Continuous chain of mountains that rise abruptly more or less parallel to the coastline of India is
 (a) Aravalli (b) Satpura
 (c) Eastern ghats (d) Western ghats
45. The biggest reserves of Thorium are in ____
 (a) China (b) USA
 (c) India (d) France
46. Which of the following became the first country in the world to legalise euthanasia?
 (a) Belgium (b) Netherlands
 (c) Denmark (d) Canada
47. Which of the following countries won Euro Cup 2016 (football) ?
 (a) France (b) Germany
 (c) Portugal (d) Iceland
48. Shivkumar Sharma is famous for playing the ____
 (a) Sitar (b) Flute
 (c) Santoor (d) Tabla
49. Who among the following is popularly known as 'Blade Runner'?
 (a) Usain Bolt (b) Oscar Carl Pistorious
 (c) Carl Lewis (d) Ben Johnson
50. FCRA administered by the Ministry of Home Affairs stands for ____?
 (a) Foreign Currency Regulation Act
 (b) Foreign Contribution Regulation Act
 (c) Foreign Contract Regulation Act
 (d) Foreign Cartel Restriction Act

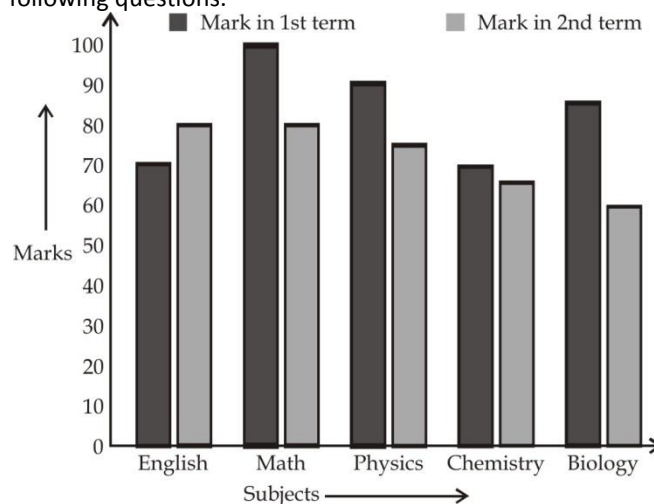
QUANTITATIVE APTITUDE

51. The product of two positive integers is 2048 and one of them is twice the other. Then the small of the number is:
 (a) 32 (b) 64
 (c) 16 (d) 1024
52. A and B can do a work in 8 days, B and C can do the same work in 12 days. A, B and C together can finish it in 6 days. A and C together will do it in:
 (a) 4 days (b) 6 days
 (c) 8 days (d) 12 days
53. The diagonal of a cuboid of length 5 cm, width 4 cm and height 3 cm is:
 (a) $5\sqrt{2}$ cm (b) $2\sqrt{5}$ cm
 (c) 12 cm (d) 10 cm
54. An article marked at Rs. 540 is sold at Rs. 496.80 in an off-season offer. Then the rate of discount offered (in percent) is:
 (a) 7 (b) 7.5
 (c) 8 (d) 10
55. Three numbers are in the ratio 5:7:12. If the sum of the first and the third is greater than the second by 50. The sum of the three numbers is:
 (a) 125 (b) 120
 (c) 95 (d) 85

56. The average age of 10 children is 9 years 9 months. The average of 9 children is 8 years 11 months. What is the age of the tenth child?
 (a) 17 years 3 months (b) 18 years 4 months
 (c) 17 years 5 months (d) 18 years 3 months
57. Gopi goes from place A to B to buy an article costing 15% less at B. although he spends Rs. 150 on travelling, still he gains Rs. 150 compared to buying it at A. His profit percent is:
 (a) 4.5 (b) 6
 (c) 7.5 (d) 8
58. If the income of Mohan is 150% higher than Mahesh, then by what percent the income of Mahesh is less than Mohan?
 (a) 40% (b) 50%
 (c) 60% (d) 45%
59. The length of a train and that of a platform are equal. If with a speed of 90 km/hr the train crosses the platform in one minute, then the length of the train (in meters) is:
 (a) 500 (b) 600
 (c) 750 (d) 900
60. The simple interest on a certain sum of money for 2 years at 5% is Rs. 1600. The compound interest at the same rate after 3 years interest compound annually, is:
 (a) Rs. 2520 (b) Rs. 2522
 (c) Rs. 2555 (d) Rs. 2535
61. If $x + \frac{1}{x} = \sqrt{3}$, then the value of $x^3 + \frac{1}{x^3}$ is equal to:
 (a) 1 (b) $3\sqrt{3}$
 (c) 0 (d) 3
62. If $\frac{a}{b} + \frac{b}{a} = 1$, Then are value of $a^3 + b^3$ is equal to:
 (a) 0 (b) 1
 (c) 2 (d) 3
63. If $p^2 + q^2 = 7pq$, Then the value of $\frac{p}{q} + \frac{q}{p}$ is equal to:
 (a) 9 (b) 5
 (c) 7 (d) 3
64. If $x = 99$, then the value of $2(x^2 + 3x + 3)$ is equal to:
 (a) 1000001 (b) 20202
 (c) 999999 (d) 9999999
65. The centroid of a triangle ΔABC is G. If the area of $\Delta ABC = 72$ sq. units, then the area of ΔBGC is:
 (a) 16 sq units (b) 24 sq units
 (c) 36 sq units (d) 48 sq units
66. In case of an acute angled triangle, its orthocentre lies
 (a) inside the triangle (b) outside the triangle
 (c) on the traingle (d) on one of the vertex of the triangle
67. If ΔPQR and ΔLMN are similar and $3PQ = LM$ and $MN = 9$ cm, then QR is equal to:
 (a) 12 cm (b) 6 cm
 (c) 9 cm (d) 3 cm
68. AB is a chord of a circle with O as centre. C is a point on the circle such that. $OC \perp AB$ and OC intersects AB at P. If $PC = 2$ cm and $AB = 6$ cm then diameter of the circle is:

- (a) 6 cm (b) 6.5 cm
 (c) 13 cm (d) 12 cm
69. If $x^2 = \sin^2 30^\circ + 4 \cot^2 45^\circ - \sec^2 60^\circ$, then the value of x ($x > 0$) is:
 (a) $-\frac{1}{2}$ (b) 1
 (c) 0 (d) $\frac{1}{2}$
70. If $7\sin^2 \theta + 3\cos^2 \theta = 4$ then the value of $\sec \theta + \operatorname{cosec} \theta$ is:
 (a) $\frac{2}{\sqrt{3}} - 2$ (b) $\frac{2}{\sqrt{3}} + 2$
 (c) $\frac{2}{\sqrt{3}}$ (d) None of these
71. An observer on the top of a mountain, 500 m above the sea level, observes the angles of depression of the two boats in his same place of vision to be 45° and 30° respectively. Then the distance between the boats, if the boats are on the same side of the mountain, is:
 (a) 456 m (b) 584 m
 (c) 366 m (d) 699 m

Directions (72-75): Study the bar diagram and answer the following questions.



72. Average marks obtained in Physics for two terms is?
 (a) 80.5 (b) 82.5
 (c) 72.5 (d) 83.5
73. Difference of marks obtained in both the terms by the students is maximum in?
 (a) English (b) Physics
 (c) Biology (d) Mathematics
74. What is the percentage of marks obtained in Chemistry for both the terms?
 (a) 76.5 (b) 56.7
 (c) 75.6 (d) 67.5
75. The ratio of the average of the marks obtained in Biology for two terms to the average of the marks obtained in English and Mathematics for first term only is:
 (a) 43 : 92 (b) 39 : 42
 (c) 29 : 34 (d) 23 : 94

ENGLISH LANGUAGE

76. In the following question, out of the four alternatives, choose the word which best expresses the meaning of the given word and click the button corresponding to it.

VENIAL

- (a) CORRUPT (b) SUPERFICIAL
(c) RESPECTED (d) PARDONABLE

77. In the following question, out of the four alternatives, choose the word which is opposite in meaning to the given word and click the button corresponding to it.

DIFFIDENT

- (a) SHY (b) BRAVE
(c) CONFIDENT (d) MEEK

78. Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word and click the button corresponding to it.

- (a) Monoulouge (b) Monologue
(c) Monologe (d) Monoloauge

Directions (79 – 81): In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

79. We must go (A) / and congratulate him for (B) / his brilliant success (C) / No Error (D)

- (a) A (b) B
(c) C (d) D

80. My brother (A) / along with his friends (B) / are going on a tour (C) / No error (D)

- (a) A (b) B
(c) C (d) D

81. You have prepared well (A) / for the examination (B) / isn't it ? (C) / No error (D)

- (a) A (b) B
(c) C (d) D

Directions (82 – 84): The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it.

82. What good fortune! I found the very thing I was _____!

- (a) looking in (b) looking to
(c) looking besides (d) looking for

83. The swimmer _____ his clothes and jumped into the river.

- (a) took off (b) took of
(c) took out (d) took down

84. I will _____ to Singapore next month.

- (a) be travelling (b) be travel
(c) travels (d) am travelled

Directions (85 – 87): In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.

85. Made light of

- (a) Did not hear (b) Treated it lightly
(c) Blew away (d) Carried with him

86. Every inch a gentleman

- (a) Somewhat (b) Partly
(c) Entirely (d) Calculatively

87. Gall and wormwood

- (a) A problem (b) Hateful
(c) Useless (d) Hard to digest

Directions (88-90): Out of the four alternatives, choose the one which can be substituted for the given words/sentences and click the button corresponding to it.

88. A rough, violent, troublesome person.

- (a) Tartar (b) Talker
(c) Vagabond (d) Swindler

89. A brave, noble-minded or chivalrous man

- (a) Handsome (b) Robust
(c) Gallant (d) Reckless

90. Obsession with books

- (a) Bibliomania (b) Megalomania
(c) Xenophobia (d) Egomania

Directions (91-95): A sentence/a part of the sentence is underlined. Four alternatives are given to the underlined part which will improve the sentence. Choose the correct alternative and click the button corresponding to it. In case no improvement is needed, click the button corresponding to "No improvement".

91. The farmers work at the fields

- (a) on the fields (b) through the fields
(c) in the fields (d) No improvement

92. The boss impatiently told him to get up with his work.

- (a) to get on (b) to get by
(c) to get under (d) No improvement

93. The judges remarked on the high standard of entries for the competition.

- (a) remarked of (b) remarked at
(c) remarked over (d) No improvement

94. He did not know how to solve the problem and I did not either

- (a) neither do I (b) neither did I
(c) either did I (d) No improvement

95. It is a place far of here

- (a) far by here (b) far from here
(c) far away here (d) No improvement

Directions (96-100): A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives and click the button corresponding to it.

Mary Garden, a noted opera singer, earned a great deal of money during her career, but was constantly bothered by the demands of her father for money – and always in large sums.

Miss Garden would always give it to him, though often she would often complain that his requests seemed somewhat unreasonable. To this the stock reply was that he needed the money for a very special project. She was not going to refuse her father, was she ?

During the depression Miss Garden, like many others, lost her money in the stock market crash. Shortly afterward, her father died, and, much to her surprise, she was notified that he had left a large bank account in her name. He had saved for her every cent she had given him.

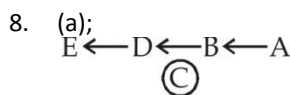
The demands God makes on us may seem hard at times. But all the while He is actually helping us to store up an 'eternal bank account' in heaven – one which may balance the scales in our favour when we least expect it. Troubles are often the instruments by which God fashions us for better things.

96. Mary's father made demands for _____
 (a) a small sum of money
 (b) large sums of money
 (c) no money
 (d) a reasonable sum of money
97. Mary _____ to the demands of her father.
 (a) could not refuse to pay any attention
 (b) wanted to refuse to pay any attention
 (c) finally refused to pay any attention
 (d) initially refused to pay any attention
98. Mary's father had _____ all the money he took from her.
 (a) gambled (b) wasted
 (c) invested (d) saved
99. During the depression Mary _____ in the stock market.
 (a) lost no money at all (b) lost her money
 (c) lost some money (d) lost lot of money
100. God at times, makes hard demands so that He _____ when we least expect it.
 (a) can balance the scales against us
 (b) can balance the scales in our favour
 (c) can harm us (d) can refuse to assist us

Solutions:

1. (a); Flow is the characteristics of river and stagnant is the characteristics of pond.
2. (a);
 A → B → C → D
 E → F → G → H
 I → J → K → L
 M → N → O → P
 but closest option is (a).
3. (b);
 $3^3 - 3 = 24$, $7^3 - 7 = 336$
 $4^3 - 4 = 60$
 $6^3 - 6 = 210$
4. (d); Except Agra all are hill station.

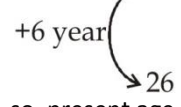
5. (b); 900 → square of 30 but all other are cube of different no.
6. (b); Except KPSU all are sequence of difference of +5, +4, +2
7. (a); Correct sequence of words are -
 Matchbox → Maternity → Matriarchy → Matricide



So, there is one gap after 2-letter

9. (a); The difference between numbers -11, -13, -15 & -17 so, next no. is $424 - 17 = 407$

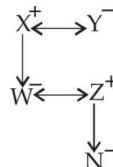
10. (b); Ratio of age of Arun and Deepak –
 4 : 3



so, present age of Arun = $26 - 6 = 20$ year
 so, 4 ratio = 20

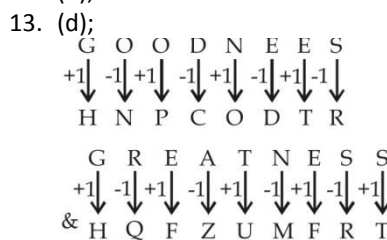
1 ratio = 5
 so, present age of Deepak = $5 \times 3 = 15$ years

11. (d);
 Make family tree.



so, N is the grand daughter of y.

12. (b); DESTINATION is derived from the DETERMINATION



14. (d); $5 \times 4 \times 2 \times 1 = 1425$

so, that is similar to
 $9 \times 3 \times 7 \times 5 = 5379$

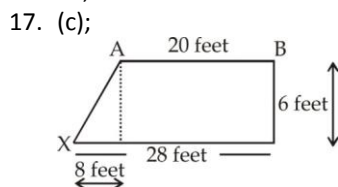
15. (b); By using options – after replacing symbols

$18 \div 3 \times 2 + 8 - 6 = 14$

$12 + 8 - 6 = 14$

so, (b) is correct ans.

16. (b);
 A → B → C → D → E → F → G → H → I
 Z ← X → X → W → V → U → T → S → R
 So, H S is correct ans



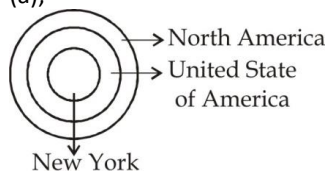
so, that is the triplet 8, 6 & 10

so, distance is 10 feet

18. (d); Nether I or II is an assumption can be definitely be drawn the given statement

19. (a); The no. of cubes are in diagram-
 $6 + 3 + 1 = 10$

20. (a);



21. (d);

22. (b);

23. (d);

24. (c);

25. (b); HILL represents only by 55, 77, 69, 85.

26. (d)

27. (b)

28. (a)

29. (b)

30. (c)

31. (a)

32. (c)

33. (b)

34. (b)

35. (a)

36. (b)

37. (b)

38. (c)

39. (a)

40. (a)

41. (c)

42. (c)

43. (d)

44. (d)

45. (c)

46. (b)

47. (c)

48. (c)

49. (b)

50. (b)

51. (a); let first no. = x

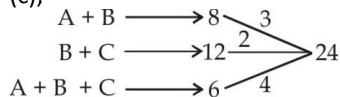
another no. = 2x

so, $x \times 2x = 2048$

$x = 32$

so, smallest no. = 32

52. (c);



so, A & C efficient $\Rightarrow A + C = 3$

so, work done by A + C = $\frac{24}{3} = 8$ days

53. (a); Diagonal of a

$$= \sqrt{p^2 + b^2 + h^2} = \sqrt{5^2 + 4^2 + 3^2} = 5\sqrt{2} \text{ cm}$$

54. (c); The rate of discount = $\frac{540 - 496.8}{540} \times 100$

$$= \frac{43.2}{540} \times 100 = 8\%$$

55. (b); The ratio of three numbers = 5 : 7 : 12

the sum of first and third = 5 + 12

so, $17x = 7x + 50$

so, $x = 5$

so, sum of all no. = $(5 + 7 + 12) \times 5 = 120$

56. (a); The age of 10 children = $(12 \times 9 + 9) \times 10$

= 1170

the age of 9 children = $(12 \times 8 + 11) \times 9 = 963$

so, the age of 10th child = $1170 - 963$

= 207 month

so, it can be converted into year = 17 year 3 months

57. (c); Let CP = 2000

SP = 1700

so, after spend price = 1850

so, profit % = $\frac{150}{2000} \times 100 = 7.5\%$

58. (c); Required % = $\frac{150}{250} \times 100 = 60\%$

59. (c); Speed = 90 km/hr = $90 \times \frac{5}{18} = 25$ m/sec

so, distance covered by train in 60 sec.

= $60 \times 25 = 1500$ m

so, train & platform length = 750 meter each

60. (b); Required interest = principal amount $\times 1.05 \times 1.05 \times 1.05$ - principal amount

= $16000 \times 1.05 \times 1.05 \times 1.05 - 16000 = 2522$

61. (c); $x + \frac{1}{x} = \sqrt{3}$

cubing on both sides

$$x^3 + \frac{1}{x^3} + 3\sqrt{3} = (\sqrt{3})^3$$

$$x^3 + \frac{1}{x^3} = 0$$

62. (c); $\frac{a}{b} + \frac{b}{a} = 1$

so, $a + b = a \cdot b$

$$a^3 + b^3 = (a + b)^3 - 3ab(a + b)$$

$$= (a + b)(a^2 + b^2 - ab) = (a + b)(0) = 0$$

so, we get $a^3 + b^3 = 0$

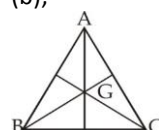
63. (c); $\frac{p^2 + q^2}{p \cdot q} = 7$

64. (b); $x = 99$ then $2(x^2 + 3x + 3)$

so, $2(99^2 + 3 \times 99 + 3) = 2(9801 + 297 + 3)$

= 20202

65. (b);



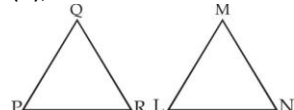
Area of $\Delta ABC = 72$ sq. unit

so, area of $\Delta BGC = \frac{72}{3} = 24$ sq. units

cuboid

66. (a); In acute angle case, its orthocentre lies inside the triangle

67. (d);



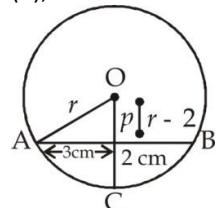
given that, $3PQ = LM$

$$\frac{PQ}{LM} = \frac{1}{3}$$

& $MN = 9$ cm

so, $QR = \frac{MN}{3} = \frac{9}{3} = 3$ cm

68. (b);



$$\text{so, } r^2 = (r-2)^2 + 3^2$$

$$r = 3.25 \text{ cm}$$

$$\text{so, diameter} = 2 \times 3.25 = 6.5 \text{ cm}$$

69. (d); $x^2 = \frac{1}{4} + 4 - 4$

$$\text{so, } x = \frac{1}{2}$$

70. (b); $4\sin^2\theta + 3(\sin^2\theta + \cos^2\theta) = 4$

$$4\sin^2\theta = 4 - 3$$

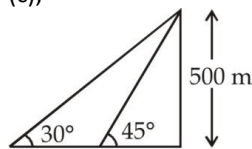
$$\sin^2\theta = \frac{1}{4}$$

$$\sin\theta = \frac{1}{2} = \sin 30^\circ$$

$$\text{so, } \sec 30^\circ + \operatorname{cosec} 30^\circ$$

$$= \frac{2}{\sqrt{3}} + 2$$

71. (c);



$$= 500 (\cot\theta_1 - \cot\theta_2)$$

$$= 500 (1 - \sqrt{3})$$

$$= 500 (1 - 1.732)$$

$$= 500 \times 0.732 = 366 \text{ m}$$

72. (b); Average marks = $\frac{90+75}{2} = 82.5$

73. (c); As seen in diagram

74. (d); Marks obtained in chemistry = $\frac{70+65}{2} = \frac{135}{2} = 67.5$

75. (c); Avg. Biology marks = $\frac{85+60}{2} = \frac{145}{2} = 72.5$

$$\& \text{ avg. marks of English \& Mathematics for first term only}$$

$$= \frac{70+100}{2} = 85$$

$$\text{so, ratio} = \frac{145}{170} = \frac{29}{34}$$

76. (d); venial means (of a fault or offence) slight and pardonable, so "pardonable" is word which is similar in meaning to it.

77. (c); diffident means modest or shy because of a lack of self-confidence, so "confident" is word which is opposite in meaning to it.

78. (b); "Monologue" is the correct spelling.

79. (b); "We must go and congratulate him on his brilliant success." is the correct sentence.

80. (c); "My brother along with his friends is going on a tour." is the correct sentence.

81. (c); "You have prepared well for the examination haven't you." is the correct sentence.

82. (d); 'looking for' is correct.

83. (a); 'took off' is correct.

84. (a); 'be travelling' is correct.

85. (b); 'Made light of' means "to act as if something is not serious".

86. (c); 'Every inch a something' means "completely; in every way".

87. (b); 'Gall and wormwood' means "Strong feeling of bitterness and resentment".

88. (a); Tartar means "a harsh, fierce, or intractable person".

89. (c); Gallant means "charmingly attentive and chivalrous to women".

90. (a); Bibliomania means "passionate enthusiasm for collecting and possessing books".

91. (c); "in the fields" is correct use.

92. (a); "to get on" is correct use.

93. (d); The given sentence is already correct.

94. (b); "neither did I" is the correct choice among the given options.

95. (b); Only "far from here" is grammatically correct.

96. (b); Refer to the first sentence of the passage, "Mary Garden, a noted opera singer, earned a great deal of money during her career, but was constantly bothered by the demands of her father for money – and always in large sums." Hence option (b) is true.

97. (a); Option (a) is correct choice.

98. (d); Refer to the last sentence of the third paragraph "He had saved for her every cent she had given him." Hence option(d) is correct.

99. (b); Refer to the first sentence of the third paragraph "During the depression Miss Garden, like many others, lost her money in the stock market crash." Hence option (b) is true.

100.(b); Refer to the second sentence of the last paragraph "But all the while He is actually helping us to store up an 'eternal bank account' in heaven – one which may balance the scales in our favour when we least expect it." Hence option (b) is correct.



COMBO

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REASONING ABILITY

Directions (1-5): In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions. Mark answer

- If only conclusion I follows.
- If only conclusion II follows.
- If either conclusion I or II follows.
- If neither conclusion I nor II follows.
- If both conclusions I and II follow.

1. **Statements:** $A > B \leq C = D \leq E, C \geq F = G > H$

Conclusions: I. $G \leq E$ II. $A > H$

2. **Statements:** $H \geq T > S \leq Q, T \geq U = V > B$

Conclusions: I. $V > S$ II. $B \leq H$

3. **Statements:** $F < K \leq L, H \geq R > K$

Conclusions: I. $H > L$ II. $R > F$

4. **Statements:** $N \geq P > K = L, P \leq Q < Z, T > K$

Conclusions: I. $N > Q$ II. $Z < T$

5. **Statements:** $P < H = O \geq N, E \geq H < S$

Conclusions: I. $N \leq E$ II. $S > P$

Directions (6-10): Study the given information carefully to answer the given question.

J, K, L, M, N, O and G are seven different boxes of different colours i.e. Brown, Orange, Silver, Pink, Yellow, White and Green but not necessarily in the same order.

Box which is of Brown colour is immediately above J. There are only two boxes between M and the box which is of Brown colour and Box M is above the Brown colour box. Box which is of Silver colour is above M but not immediately above M. Only three boxes are between L and the box which is of Silver colour. The box which is of Green colour is immediately above L. The box which is of Pink colour is immediately above the box G. Only one box is there between K and N. Box K is above N. Neither box K nor J is of Yellow colour. J is not of orange colour.

- How many boxes are there between M and G?
 - One
 - Two
 - Three
 - Four
 - None
- What is the colour of 'O'?
 - Green
 - Brown
 - Silver
 - Pink
 - Can't be determined.
- Find the pair of colour and boxes which is not correct?
 - K-Pink
 - O-Silver
 - J-white
 - G-Brown
 - None of these
- Which of the following condition is correct regarding yellow colour with respect to N?
 - There are one person between N and Yellow colour
 - N is immediately above of yellow colour
 - Yellow colour related to the person immediately above N

- All of the above is true
- None of the above is true.

10. Which of the following colour is belong to 'J'?

- Brown
- Pink
- Yellow
- Orange
- None of these.

Direction (11-13): Study the following information and answer the given question.

- T is the sister of D. D is married to P. P is the son of M.
- T is the mother of J. Y is the father of U.
- Y has only one son and only one daughter.
- U is the daughter of T. Q is the son of D.

11. How is P related to T ?

- Brother
- cannot be determined
- Brother-in-law
- Cousin brother
- Uncle

12. How is J related to D ?

- Son
- Niece
- Son-in-law
- Nephew
- Daughter

13. If M is wife of W then how is Q related to W ?

- Son-in-law
- Grandson
- Nephew
- Son
- cannot be determined

Directions (14 – 15) : Read the given information carefully and answer the given question

P is 9 m to the south of K. K is 5 m to the east of H. H is 4 m to the north of B. L is 3 m west of B. D is 7 m south of L. G is 8 m east of D.

14. If Point Z is 5 m to the west of point P, then what is the distance between B and Z?

- 8 m
- 9 m
- 5 m
- 2 m
- 6 m

15. How far and in which direction is point K from Point G?

- 11 m to the south
- 7 m to the north
- 11 m to the north
- 7 m to the south
- 11 m to the west

Directions (16-20) : Study the following information to answer the given questions

S, T, U, V, W, X, Y and Z are sitting in a straight line equidistant from each other (but not necessarily in the same order). Some of them are facing south while some are facing north.

(Note : Facing the same direction means, if one is facing north then the other also faces north and vice-versa. Facing the opposite directions means, if one is facing north then the other faces south and vice-versa)

S faces north. Only two people sit to the right of S. T sits third to the left of S. Only one person sits between T and X. X sits to the immediate right of W. Only one person sits between W and Z. Both the immediate neighbors of T face the same direction. U sits third to the left of X. T faces the opposite direction as S. Y does not sit at any of the extremes ends of the line. V faces the

same direction as W. Both Y and U face the opposite direction of Z.

16. How many persons in the given arrangement are facing North?
 (a) More than four (b) Four (c) One
 (d) Three (e) Two
17. Four of the following five are alike in a certain way, and so form a group. Which of the following does not belong to the group?
 (a) W, X (b) Z, Y (c) T, S
 (d) T, Y (e) V, U
18. What is the position of X with respect to Z?
 (a) Second to the left (b) Third to the right
 (c) Third to the left (d) Fifth to the right
 (e) Second to the right
19. Who amongst the following sits exactly between Z and W?
 (a) T (b) Y (c) X
 (d) W (e) U
20. Who is sitting 2nd to the right of T?
 (a) Z (b) V (c) X
 (d) W (e) None of these.

Directions (21-27): Study the following information carefully to answer the given questions

W, X, Y, Z, M, N and O are belongs to three different department R&D, Marketing and HR with at least 2 of them in any of these department. Each of them has a favourite Colour such viz. Green, Blue, Red, Pink, Black, Violet and Purple.

X works in departmet Marketing with M. M's favourite Colour is Purple. Those who work in department R&D do not like Green and Pink. The one who likes Blue works only with O in department HR. The one whose favourite Colour is Black does not works in the same department with either M or O. W does not works in department Marketing. W likes Violet. Z and N are work in the same department. N does not like Red. The one whose favourite Colour is Pink does not works in department Marketing.

21. In which department W, Z and N work?
 (a) Cannot be determines
 (b) R&D (c) Marketing
 (d) HR (e) None of these
22. Whose favourite Colour is Green ?
 (a) X (b) W (c) Y
 (d) Z (e) None of these
23. What is M's favourite Colour?
 (a) Violet (b) Pink (c) Purple
 (d) Black (e) None of these
24. Which of the following combination is right ?
 (a) W – HR : Blue (b) O – R&D : Black
 (c) N – HR : Pink (d) Z – R&D : Red
 (e) None of these
25. Y works in which department ?
 (a) R&D (b) Marketing (c) HR
 (d) Cannot be determined (e) None of these

26. Whose favourite Colour is Pink ?
 (a) X (b) W (c) O
 (d) Z (e) None of these
27. In which department M works?
 (a) Cannot be determines
 (b) R&D (c) Marketing
 (d) HR (e) None of these

Directions (28-32): Study the following information carefully and answer the questions given below:

Seven persons, P, Q, R, S, T, U and V are going to attend marriage ceremony but not necessarily in the same order, in seven different months (of the same year) namely January, February, March, June, August, October and December, Each of them also likes a different fruit namely Banana, Grapes, Papaya, Orange, Mango, Litchi and Apple but not necessarily in the same order. R is going to attend marriage in a month which has less than 31 days. Only two persons are going to attend marriage ceremony between the month in which R and S attends marriage ceremony. The one who likes Banana is going to attend marriage ceremony immediately before T. Only one person attends ceremony before the one who likes Papaya. Q attends ceremony immediately after the one who likes Papaya. Only three persons attends marriage ceremony between Q and the one who likes Mango. T likes neither Mango nor Papaya. P attends ceremony immediately before T. V likes Apple. The one who likes Grapes attends ceremony in the month, which has less than 31 days. The one who attends ceremony in March does not like Orange.

28. Which of the following represents the month in which S attends marriage ceremony ?
 (a) January (b) Cannot be determined
 (c) October (d) December (e) June
29. Which of the following represents the people who attends ceremony in January and June respectively ?
 (a) V, S (b) U, S (c) Q, T
 (d) U, R (e) V, R
30. How many persons attends ceremony between the months in which V and R attend ceremony ?
 (a) None (b) Three (c) Two
 (d) One (e) More than three
31. As per the given arrangement, R is related to Banana and P is related to Orange following a certain pattern, which of the following is U related to following the same pattern ?
 (a) Mango (b) Litchi (c) Apple
 (d) Papaya (e) Grapes
32. Which of the following fruits, does U like ?
 (a) Papaya (b) Mango (c) Banana
 (d) Grapes (e) Orange

Directions (33-35): Study the given information carefully and answer the given questions.

Among six books i.e. – A, B, C, D, E and F kept in library shelf of different size. Book A is kept at that shelf which is only less in size than shelf in which book D is kept. Only three shelves are less

in size than shelf in which book C is kept. Shelf in which F is kept is less in size than shelf in which E is kept. Book F is not kept at the lowest shelf.

33. Who amongst the following book is kept at lowest shelf?
 a) B b) A c) E
 d) C e) None of these
34. If size of shelf in which book E is kept is 16 cm^2 , then which of the following may be the size of shelf in which book B is kept?
 a) 19 cm^2 b) 22 cm^2 c) 18 cm^2
 d) 17 cm^2 e) 12 cm^2
35. How many shelf are less in size than shelf in which book E is kept?
 a) One b) Two c) Three
 d) Four e) More than four



REASONING
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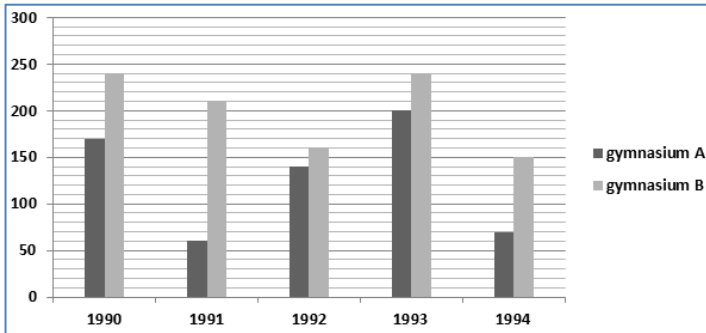
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QUANTITATIVE APTITUDE

Directions (36-40): In the Bar-chart, total members enrolled in different years from 1990 to 1994 in two gymnasium A and B. Based on this Bar chart solve the following questions-



36. In the year 1995, 30% increase in total number of members enrolled in 1994 of both gymnasium, then find the total no. of members enrolled in 1995?
 (a) 282 (b) 296 (c) 292
 (d) 286 (e) none of these
37. The ratio between total members of both gymnasium in 1991 to total members in 1994 of both gymnasium is-
 (a) 22:27 (b) 21:11 (c) 11:21
 (d) 25:13 (e) 27:22
38. The number of members of gymnasium A in 1991 is what % of the no. of members of gymnasium B in 1994.
 (a) 60% (b) 55% (c) 58%
 (d) 62% (e) none of these
39. The average of members enrolled in gymnasium A from 1991 to 1994 together is what percent more then the The average of members enrolled in gymnasium B in 1993 and 1994 together?(Rounded off to 2 decimal places)
 (a) 10.51% (b) 20.51% (c) 15.51%
 (d) 17.51% (e) none of these

40. Total member enrolled in gymnasium B in 1993 and 1994 together is what % more than members enrolled in gymnasium A in 1990 and 1994 together?
 (a) 60% (b) 65% (c) 62.5%
 (d) 61.5% (e) none of these

Directions (41-45): What should come in place of question mark (?) in the following number series?

41. 4,3,4,7,15, ?
 a) 38.5 b) 40 c) 45
 d) 37.5 e) none of these
42. 7, 5, 7, 17, 63, ?
 a) 321 b) 309 c) 305
 d) 301 e) none of these
43. 11,14,19,28,43, ?
 a) 60 b) 63 c) 66
 d) 70 e) none of these
44. 2 60 10 120 30 ?
 (a) 222 (b) 216 (c) 208
 (d) 230 (e) None of these
45. 23 50 108 232 492 ?
 (a) 1028 (b) 1024 (c) 1020
 (d) 1032 (e) None of these

Directions (46-50): There are five companies and we have given the no. of employee working in different companies. In the table we have also given the percentage of male and female employees of HR and Marketing department.

Company	Employees	HR		Marketing	
		Male	Female	Male	Female
P	400	12	14	9	7
Q	650	19	10	11	13
R	500	28	14	4	7
S	550	31	9	6	4
T	300	12	18	3	7

46. If 60% of the employees of company T in HR department have MBA degree and 40% of the employees of the same company in the Marketing dept. have MBA degree, then how many employees have MBA degree in company T in both dept. together.
 (a) 98 (b) 108 (c) 106
 (d) 92 (e) 66
47. The ratio of female employee of company Q in HR dept. to male employee of company R in Marketing dept. ?
 (a) 4:13 (b) 5:22 (c) 22:5
 (d) 13:4 (e) none of these
48. Total number of HR employees of company P is what % more than the total no. of marketing employee in company T?
 (a) 236.76% (b) 226.67% (c) 276.76%
 (d) 246.67% (e) none of these
49. The ratio of male employee in HR dept. of company P and R together to female employee of Marketing department in company S and T together?
 (a) 187:27 (b) 43:188 (c) 188:43
 (d) 27:187 (e) none of these
50. Difference between female employees of HR dept. in all companies together (excluding company S) and the female employees of Marketing dept. in all companies together (excluding company Q)?
 (a) 139 (b) 129 (c) 135
 (d) 141 (e) none of these
51. A mixture contains wine and water in the ratio 3 : 2 and another mixture contains them in the ratio 4 : 5. How many litres of the latter must be mixed with 3 litres of the former so that the resultant mixture may contain equal quantities of wine and water ?
 (a) $1\frac{2}{3}$ litre (b) $5\frac{2}{5}$ litre (c) $4\frac{1}{2}$ litre
 (d) $3\frac{3}{4}$ litre (e) None of these
52. A trader sells two bullocks for Rs. 8,400 each, neither losing nor gaining in total. If he sold one of the bullocks at a gain of 20%, the other is sold at a loss of
 (a) 20% (b) $18\frac{2}{9}\%$ (c) $14\frac{2}{7}\%$
 (d) 21% (e) None of these
53. Two trains, A and B, start from stations X and Y towards each other, they take 4 hours 48 minutes and 3 hours 20 minutes to reach Y and X respectively after they meet if train A is moving at 45 km/hr., then the speed of the train B is
 (a) 60 km/hr (b) 64.8 km/hr (c) 54 km/hr
 (d) 37.5 km/hr (e) None of these
54. Out of his total income, Mr. Kapoor spends 20% on house rent and 70% of the rest on house hold expenses. If he saves Rs 1,800 what is his total income (in rupees)?
 (a) Rs 7,800 (b) Rs 7,000 (c) Rs 8,000
 (d) Rs 7,500 (e) None of these
55. A can do a piece of work in 8 days which B can destroy in 3 days. A has worked for 6 days, during the last 2 days of which B has been destroying. How many days must A now work alone to complete the work?
 (a) 7 days (b) $7\frac{1}{3}$ days (c) $7\frac{2}{3}$ days
 (d) 8 days (e) None of these
- Directions (56-60):** What approximate value should come in place of the question mark (?) in the following questions? (You are not expected to calculate the exact value.)
56. 57% of $394 - 2.5\%$ of $996 = ?$
 (a) 215 (b) 175 (c) 200
 (d) 180 (e) 205
57. $96.996 \times 9.669 + 0.96 = ?$
 (a) 860 (b) 870 (c) 1020
 (d) 940 (e) 1100
58. $\frac{3}{5} \times \frac{1125}{1228} \times 7 = ?$
 (a) 7 (b) 12 (c) 9
 (d) 4 (e) 15
59. $(\sqrt{339} \times 25) \div 30 = ?$
 (a) 12 (b) 15 (c) 24
 (d) 21 (e) 9
60. $(638 + 9709 - 216) \div 26 = ?$
 (a) 275 (b) 365 (c) 420
 (d) 300 (e) 390
- Directions (61-65):** Solve the equations given below and answer
- (a) if $x > y$ (b) if $x < y$
 (c) if $x \geq y$ (d) if $x \leq y$
 (e) $x = y$ or no relation can be established
61. $6x^2 + 31x + 35 = 0$ $2y^2 + 3y + 1 = 0$
62. $2x^2 - (4 + \sqrt{13})x + 2\sqrt{13} = 0$
 $10y^2 - (18 + 5\sqrt{13})y + 9\sqrt{13} = 0$
63. $2x^2 + 9x + 10 = 0$ $4y^2 + 28y + 45 = 0$
64. $15x^2 - 11x - 12 = 0$ $20y^2 - 49y + 30 = 0$
65. $2x^2 - 15 = 7x$ $17y = -7 - 6y^2$
66. A and B are partners in a business. They invest in the ratio 5 : 6, at the end of 8 months A withdraws. If they receive profits in the ratio of 5 : 9, find how long B's investment was used?
 (a) 12 months (b) 10 months (c) 15 months
 (d) 14 months (e) 18 months
67. There are 3 red balls, 4 blue balls and 5 white balls. 2 balls are chosen randomly. Find probability that 1 is red and the other is white.
 (a) $5/22$ (b) $5/23$ (c) $7/22$
 (d) $4/9$ (e) None of these
68. According to a new plan rolled out by HISP Bank, the rate of simple interest on a sum of money is 8% p.a. for the first two years, 10% p.a. for the next three years and 6% p.a. for the period beyond the first five years. Simple interest accrued on a sum for a period of eight years is Rs. 12,800. Find the sum.
 (a) Rs. 24,000 (b) Rs. 16,000 (c) Rs. 15,000

- (d) Rs. 13,500 (e) None of these
69. Three Science classes A, B and C take a Life Science test. The average score of students of class A is 83. The average score of students class B is 76. The average score of class C is 85. The average score of class A and B is 79 and average score of class B and C is 81. Then the average score. Of classes A, B and C is
(a) 80 (b) 80.5 (c) 81
- (d) 81.5 (e) None of these
70. A hemispherical bowl of internal diameter 54 cm contains a liquid. The liquid is to be filled in cylindrical bottles of radius 3 cm and height 9 cm. How many bottles are required to empty the bowl?
(a) 221 (b) 343 (c) 81
(d) 243 (e) None of these

ENGLISH LANGUAGE

Directions (71-80): Read the following passage carefully and answer the questions given below it. Certain words have been printed in bold to help you to locate them while answering some of the questions.

Despite rapid economic growth, the explosion of microcredit programs and self-help groups, and laudable efforts to increase women's political participation, gender disparities have remained deep and **persistent** in India. The UN Gender Inequality Index has ranked India below several sub-Saharan African countries. Gender disparities are even more pronounced in economic participation and women's business conditions in India. Using data from the 2011 Global Gender Gap report shows that while India scores around the average of the gender gap index overall, its score for women's economic participation and opportunity is worse than 95% of all countries in the sample. Despite India being the second fastest growing economy in the world, gender disparities have remained deep and persistent in India.

The good news is that the overall India average female business-ownership share (in manufacturing) has increased over time from 26% in 2000 to 37% in 2005. However, there is wide variation across states and industries in the **prevalence** of women as entrepreneurs. Among the major states of India, those with the highest share of new proprietary businesses in the unorganized manufacturing sector owned by women in 1994 are Karnataka, Tamil Nadu, Andhra Pradesh, and Kerala. Those with the lowest share of female entrepreneurs are Uttar Pradesh, Haryana, Maharashtra, Madhya Pradesh, and Rajasthan. Similar patterns hold across states when comparing overall business ownership rates by gender. All but one state (Sikkim) saw an increase in the share of new businesses owned by women over the period of 1994 to 2005.

Not surprisingly, the same industries in which female entrepreneurship is concentrated relative to male entrepreneurship also comprise the industries in which most women-owned businesses are found. In 1994, more than 90 percent of new female-owned businesses were found in six of 22 2-digit industries. These industries include Textiles, Tobacco, Wood Products, Food Products, Furniture and Chemical Products. By 2005, 90 percent of female entrepreneurs were still concentrated in six largely overlapping 2-digit industries. At the opposite end, female shares of 2% or less are evident in industries related to computers, motor vehicles, fabricated

metal products, and machinery and equipment. In services, female ownership rates in major cities tend to be higher than overall state averages and exceed 30% in sanitation and education industries.

Among district-level traits, a higher female-to-male sex ratio, an age profile emphasizing working age population, better quality infrastructure, and more stringent labor regulations appear important. The relative entry rate declines with high population density. Education and female literacy rates are not associated with gender differences in manufacturing. The relationship between infrastructure and the female entry share is the most policy relevant. Inadequate infrastructure affects women more than men, perhaps because women often bear a larger share of the time and responsibility for household activities. It is notable that infrastructure access within a district matters. Women face greater constraints in geographic mobility imposed by safety concerns and/ or social norms. Better transport infrastructure may **alleviate** a major constraint for female entrepreneurs accessing markets. Ironically industries related to transportation have the lowest share of women entrepreneurs. Somewhat surprisingly, a higher female entry ratio is not associated with a greater female sex ratio in the district. Stronger female-owned incumbent businesses again predict a greater female entrepreneurship in service industries. Our results support the conclusion that female entrepreneurship in India follows from incumbent female-owned businesses in a district-industry that encourage subsequent entry. Marshallian channels are important, but they mostly appear to be operating through the district-industry agglomeration for female business owners itself. While our approach does not rule out every potential bias, it does **circumvent** the most worrisome endogeneity or omitted factors.

A central driver of economic growth over the past century is the increased role of women. This growth via the role of women comes in many forms: better education and health, increased female labor force participation generally, reduced discrimination and wage differentials that encourage greater effort, and improved advancement practices that promote talented women into leadership and managerial roles. Simply put, empowering half of the potential workforce has significant economic benefits beyond promoting gender equality. The infrastructure correlation is the most policy relevant.

Inadequate infrastructure affects women in particular ways due to responsibilities regarding household and domestic activities. It is notable that while our within-district infrastructure access is important in predicting female entrepreneurship, access to major cities is not found to influence the gender balance of entrepreneurs.

We find evidence of agglomeration economies in both manufacturing and services, where higher female ownership among incumbent businesses within a district-industry predicts a greater share of subsequent entrepreneurs will be female. Moreover, higher female ownership of local businesses in related industries (e.g., similar labor needs, input-output markets) predict greater relative female entry rates even after controlling for the focal district-industry's conditions. Our analysis suggests that gender-based business networks may play a role in encouraging women's entrepreneurship. Our analysis is only suggestive in this respect, and points to the need for future research which develops a better understanding regarding the dynamics of gender-based networks, entrepreneurship and productivity. Linkages and spillovers across firms can depend on common traits of business owners, and interactions between the informal (unorganized) and formal (organized) sectors may not be as strong as interactions within each sector. Further research needs to identify how these forces affect small-scale female entrepreneurs and the welfare of women generally. This will be especially helpful for evaluating the performance of industry concentrations in developing economies and guiding appropriate policy actions. Much recent work emphasizes the role of women in development. India's economic growth and development depends upon successfully utilizing its workforce. Despite recent economic advances, India's gender balance for entrepreneurship remains among the lowest in the world. Improving this balance is an important step for India's development and its achievement of greater economic growth and gender equality.

71. What is the main reason for huge gender disparities in women's economic participation in India?
- Female literacy rate which is very low because of social reasons.
 - Substandard education among the women because of their social status.
 - Dearth in infrastructure facilities.
 - Stringent labour regulation laws.
 - Lack of physical strength in women which is required in industries.
72. Which of the following is/ are the reason(s) for district-industry with high rate of incumbent female employment?
- High population density.
 - Stringent labour regulation laws which suppresses Indian entrepreneurship.
 - Strong open minded male owned incumbent businesses.

- Only (ii).
 - Both (ii) and (iii).
 - Both (i) and (ii).
 - Only (i).
 - All of these.
73. Share of women entrepreneurs is lowest in which of the following industries?
- Wood industries.
 - Fertilizer industries.
 - Tobacco industries.
 - Fabricated metal products.
 - Transportation industries
74. Which of the following can help significantly in embolden women entrepreneurs?
- Lenient labour laws.
 - Better education facilities in districts and more importantly in villages.
 - Giving emphasis to services which are more skill intensive than manufacturing.
 - Business based on gender.
 - Efforts in improving female sex ratio as people prefer boys more than girls.
75. Which of the following is false in context of the passage?
- Safety concern is one of the reasons for gender disparity.
 - Incumbent female owned businesses encourage more female entrepreneurs.
 - Increase in the female connection in input-output markets increases the share of female entrants.
 - Female literacy rate is not the reasons for gender disparity in manufacturing.
 - None of these.
76. What is the writing style used by the author in this passage?
- Descriptive
 - Analytical
 - Critical
 - Argumentative
 - Narrative

Directions (77-78): Which of the following is most **opposite** in **meaning** as word printed in bold letters as used in context of the passage.

77. **PERSISTENT**
- Tenacious
 - Pertinacious
 - Intermittent
 - Importunate
 - Unremitting
78. **PREVALENT**
- idiosyncratic
 - Extensive
 - Pervasive
 - Ubiquitous
 - Omnipresent

Directions (79-80): Which of the following is most similar in **meaning** as word printed in bold letters as used in context of the passage.

79. **CIRCUMVENT**
- Outmanoeuvre
 - Accede
 - Assent
 - Embrace
 - Pursue
80. **ALLEVIATE**
- Aggravate
 - Intensify
 - Escalate
 - Assuage
 - Augment

Directions (81-85): Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph and then answer the questions given below.

- A. Securities and banking firms spend 6% to 8% of their total revenues on IT. Insurance companies in contrast spend around 3.5%.
- B. Wipro has over a dozen insurance companies as customers he said citing Aviva, Friends Provident, and Allianz as examples.
- C. The story with insurance companies, like their counterparts in the other industries is the same — pressure to reduce cost and retain customers.
- D. Echoing Mr Ghosh's view, senior executives of software firms also say that disjointed IT systems, created by wave of consolidation that swept the insurance industry,
- E. Is proving to be opportunistic for Indian companies, for service offerings like consolidation of applications, maintenance and conversion from legacy to newer platforms.
- F. Regulatory pressure combined with need to introduce new products and services are forcing insurance companies to seek external help to drive their business forward, says Soumitro Ghosh, vice president, BFSI, Wipro Technologies.
81. Which of the following would be the **FIRST** sentence after rearrangement?
(a)A (b)B (c)C (d)D (e)E
82. Which of the following would be the **LAST (SIXTH)** sentence after rearrangement?
(a)A (b)B (c)C (d)D (e)E
83. Which of the following would be the **SECOND** sentence after rearrangement?
(a) A (b) B (c) C (d) D (e) F
84. Which of the following would be the **THIRD** sentence after rearrangement?
(a) A (b) B (c) C (d) D (e) F
85. Which of the following would be the **FOURTH** sentence after rearrangement?
(a) A (b) B (c) C (d) D (e) E
- Directions (86-90) :** In each of the following sentences there are two blank spaces. Below each sentences there are five pairs of words denoted by numbers (a), (b), (c), (d) and (e). Find out which pair of words can be filled up in the blanks in the sentences in the same sequence to make the sentence meaningfully complete.
86. He was -----of playing -----and loose with the sentiments of his dearest friends.
(a) Innocent; false (b) Guilty; fast (c) Accused; tight
(d) Complained; thick (e) Proper; right
87. Raising _____ over the funding to media houses, Zee group chairman sought _____ of media licences before they are issued.
(a) burden, opinion (b) concern, scrutiny
(c) matter, opinion (d) charges, regulation
(e) worry, security
88. Everyone even _____familiar with serious theater is familiar with the effort that it takes to process Shakespearean language _____ live.
(a) remotely; performed (b) comically; restrained
(c) hardly; directing (d) so; bring
(e) similarly; spoked
89. The government has decided not to make any _____ changes in the country's tax _____.
(a) Sweeping; regime (b) Transparent; hike
(c) Drastically; net (d) Constitutional; revenue
(e) Existing; structure
90. If criminals are.....to join electoral fray,.....is likely to increase.
(a) Compelled, brotherhood (b) encouraged, harmony
(c) Allowed, extortion (d) deterred, corruption
(e) Invited, voting
- Directions (91 – 95):** Read each sentence to find out whether there is any grammatical error in it. The error, if any, will be one part of the sentence. The number of that part is the If there is no error, the answer is (e). (ignore the errors of punctuation, if any.)
91. Hectic schedules can (a)/ take a toll on anybody and (b)/ the solutions to this is (c)/ a quick holiday to some exotic location. (d)/ No error (e).
92. (a) If Rajeshwari would have come/(b) to me I would have/(c) given her the/(d) help she needed./ (e) No error.
93. The court has asked the authorities (a)/to take appropriate steps to restore natural water resources (b)/ so that the water shortage problem (c)/ in the state can be solved. (d)/ No error (e)
94. District police arrested (a)/a gang of notorious robbers, (b)/who were planning to strike at (c)/a house in the vicinity. (d)/No error(e)
95. Households across the state are either opting for (a)/a more modest lifestyle or compromising on (b)/the nutritional value of their food in efforts to negate (c)/the price rise of essential commodities, cereals, vegetable and fruits. (d)/No error (e)
- Directions (96-100):** In the following passage, some of the words have been left out, each of which is indicated by a number. Find the suitable word from the options given against each number and fill up the blanks with appropriate words to make the paragraph meaningful.
- Without science there is no future for any society. Even with science, ...(96)... it is controlled by some spiritual impulses, there is no future. One great thing about science is that it does not accept anything on mere ...(97)... everything has to be(98).... beyond any doubt. All acceptance comes after experiment which has no room for any speculations. This is the reason why development of science and technology has revolutionised human life all over the world. There are very few spheres of human activity which have not experienced the impact of such development. However, despite its manifold

...(99)... science has not been able to solve any of man's moral or spiritual problems. Society is still groping in the dark to find out what its future will be. The need, therefore, is to make science ...(100)... for the ultimate truth.

96. (a) unless (b) without (c) if
(d) before (e) because
97. (a) principles (b) conjecture (c) experiment
(d) research (e) experience
98. (a) accepted (b) demonstrated
(c) proved (d) performed
(e) understood
99. (a) limitations (b) benefits (c) shortcomings
(d) researches (e) inventions
100. (a) useful (b) worthy (c) ready
(d) search (e) Fit

SOLUTIONS:

Direction (1-5)

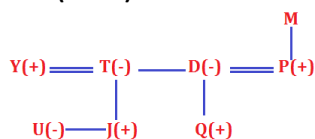
1. (a) I. $G = F \leq C = D \leq E$ (TRUE)
II. $A > B \leq C = D \leq E$ (FALSE)
2. (d) I. $V = U \leq T > S$ (FALSE)
II. $B < V = U \leq T \leq H$ (FALSE)
3. (b) I. $H \geq R > K \leq L$ (FALSE)
II. $R > K > F$ (TRUE)
4. (d) I. $N \geq P \leq Q$ (FALSE)
5. II. $Z > Q \geq P > K < T$ (FALSE)
6. (e) I. $N \leq O = H \leq E$ (TRUE) II. $S > H > P$ (TRUE)

Direction(6-10):

Boxes	Colours
O	Silver
K	Orange
M	Yellow
N	Green
L	Pink
G	Brown
J	White

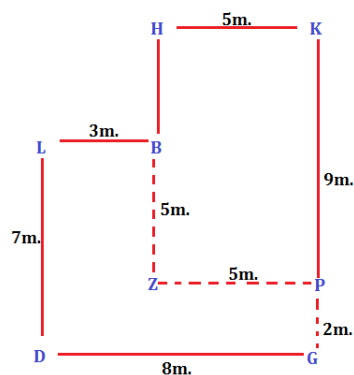
7. (b)
8. (c)
9. (a)
10. (c)
11. (e)

Direction (11-13)



12. (c)
13. (d)
14. (b)

Direction (14-15)



15. (c)
16. (c)

Directions (Q. 16-20)



17. (b)
18. (d)
19. (b)
20. (a)
21. (b)

Directions(21-27)

Persons	Department	Colour
W	R&D	Violet
X	Marketing	Green
Y	HR	Blue
Z	R&D	Red
M	Marketing	Purple
N	R&D	Black
O	HR	Pink

22. (b)
23. (a)
24. (c)
25. (d)
26. (c)
27. (c)
28. (c)

Direction(28-32):

Months in which persons are attending ceremony	Different Persons	Fruits
January	V	Apple
February	U	Papaya
March	Q	Litchi
June	R	Grapes
August	P	Banana
October	T	Orange
December	S	Mango

29. (d)
30. (e)
31. (c)

32. (b)

33. (a)

Directions(33-35):

Size of shelf in which different books are kept:

D's shelf > A's shelf > C's shelf > E's shelf > F's shelf > B's shelf

33. (a)

34. (e)

35. (b)

36. (d); Required members = $\frac{130}{100} \times 220 = 286$

37. (e); Required Ratio = $\frac{60+210}{70+150} = \frac{270}{220} = 27 : 22$

38. (e); Required % = $\frac{60}{150} \times 100$
= $20 \times 2 = 40\%$

39. (b); Required % = $\frac{(60+140+200+70)-(240+150)}{(240+150)} \times 100$
= $\frac{470-390}{390} \times 100$
= $\frac{80}{390} \times 100 = 20.51\%$

40. (c); Required % = $\frac{(240+150)-(170+70)}{(170+70)} \times 100$
= $\frac{150}{240} \times 100 = 62.5\%$

41. (a) $\times 0.5 + 1, \times 1 + 1, \times 1.5 + 1, \times 2 + 1 \dots$

42. (b) $\times 1 - 2, \times 2 - 3, \times 3 - 4, \times 4 - 5, \times 5 - 6 \dots$

43. (c) +3, +5, +9, +15.....
+2, +4, +6.....
15+8=23, 43+23=66.

44. (e); $1^3 + 1, 4^3 - 4, 2^3 + 2, 5^3 - 5, 3^3 + 3, 6^3 - 6$
 $6^3 - 6 = 210$

45. (a); $\times 2 + 4, \times 2 + 8, \times 2 + 16, \times 2 + 28, \times 2 + 44$
 $492 \times 2 + 44 = 1028$

46. (e); Required no. of employees = $\frac{60}{100} \times \frac{30}{100} \times 300 + \frac{40}{100} \times \frac{10}{100} \times 300$
= $54 + 12 = 66$

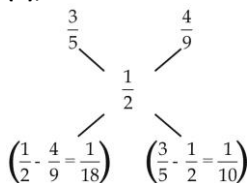
47. (d); Required Ratio = $65 : 20 = 13 : 4$

48. (d); HR employees in company P = $26 \times 4 = 104$
Marketing employee in company T = $10 \times 3 = 30$
Required % = $\frac{104-30}{30} \times 100 = 246.67\%$

49. (c); Required Ratio = $\frac{48+140}{22+21} = \frac{188}{43} = 188 : 43$

50. (a); Required difference = $(56 + 65 + 70 + 54) - (28 + 35 + 22 + 21)$
= $245 - 106 = 139$

51. (b);



Ratio = $\frac{1}{18} : \frac{1}{10}$

= $10 : 18 = 5 : 9$

Required Quantity = $\frac{3}{5} \times 9$

= $\frac{27}{5} = 5 \frac{2}{5}$ litre

52. (c); S.P. of two bullock = $8400 + 8400$
= 16800 Rs.

CP of first bullock = $\frac{100}{120} \times 8400$

= 7000

CP of second bullock = $16800 - 7000$

Required % loss = $\frac{9800-8400}{9800} \times 100$

= $\frac{1400}{9800} \times 100$

= $\frac{7}{49} \times 100$

= $\frac{100}{7} = 14 \frac{2}{7} \%$

53. (c); $\frac{S_2}{S_1} = \sqrt{\frac{\frac{24}{5}}{\frac{10}{3}}} = \sqrt{\frac{72}{50}}$

$\frac{S_2}{S_1} = \sqrt{\frac{36}{25}} = \frac{6}{5}$

$S_2 = \frac{45 \times 6}{5}$

= 54 km/hr

54. (d); Saving % = $100 - (20 + 56) = 24\%$

$\therefore 24\% = 1800$

$\therefore 100\% = \frac{1800}{24} \times 100 = 7500$ Rs.

55. (b); In 6 days part of the work done by

$A = \frac{6}{8} = \frac{3}{4}$

during 2 days, part of the work destroyed

by B = $\frac{2}{3}$

work done = $\frac{3}{4} - \frac{2}{3} = \frac{9-8}{12} = \frac{1}{12}$

Remaining work = $1 - \frac{1}{12} = \frac{11}{12}$

\therefore Required no of days = $\frac{11}{12} \times 8 = 7 \frac{1}{3}$ days.

56. (c)? = $\frac{394 \times 57}{100} - \frac{996 \times 2.5}{100}$
= $\frac{400 \times 57}{100} - \frac{1000 \times 2.5}{100}$

= $228 - 25 = 203$

\therefore Required answer = 200

57. (d) ? = $97 \times 10 + 1 = 971$

\therefore Required answer = 940

58. (d) ? = $\frac{3}{5} \times \frac{1125}{1228} \times 7 = 4$

59. (b) ? = $\frac{\sqrt{339 \times 25}}{30} = 15$

60. (e) ? = $\frac{638+9709-216}{26} = 390$

61. (b); $6x^2 + 21x + 10x + 35 = 0$

$3x(2x + 7) + 5(2x + 7) = 0$

$(3x + 5)(2x + 7) = 0$

$x = \frac{-5}{3}, \frac{-7}{2}$

$2y^2 + 2y + y + 1 = 0$

$2y(y + 1) + 1(y + 1) = 0$

$(2y + 1)(y + 1) = 0$

$y = \frac{-1}{2}, -1$

$x < y$

62. (c); $2x^2 - 4x - \sqrt{13}x + 2\sqrt{13} = 0$

$2x(x - 2) - \sqrt{13}(x - 2) = 0$

$x = 2, \frac{\sqrt{13}}{2}$

$10y^2 - 18y - 5\sqrt{13}y + 9\sqrt{13} = 0$

$2y(5y - 9) - \sqrt{13}(5y - 9) = 0$


$y = \frac{9}{5}, \frac{\sqrt{13}}{2}$

63. $x \geq y$
 (c); $2x^2 + 4x + 5x + 10 = 0$
 $2x(x + 2) + 5(x + 2) = 0$
 $x = -2, \frac{-5}{2}$
 $4y^2 + 28y + 45 = 0$
 $4y^2 + 18y + 10y + 45 = 0$
 $2y(2y + 9) + 5(2y + 9) = 0$
 $y = \frac{-5}{2}, \frac{-9}{2}$
 $x \geq y$
64. (e); $15x^2 - 20x + 9x - 12 = 0$
 $5x(3x - 4) + 3(3x - 4) = 0$
 $x = \frac{-3}{5}, \frac{4}{3}$
 $20y^2 - 25y - 24y + 30 = 0$
 $5y(4y - 5) - 6(4y - 5) = 0$
 $y = \frac{6}{5}, \frac{5}{4}$
 No relation can be established
65. (e); $2x^2 - 10x + 3x - 15 = 0$
 $2x(x - 5) + 3(x - 5) = 0$
 $x = -\frac{3}{5}, 5$
 $6y^2 + 14y + 3y + 7 = 0$
 $2y(3y + 7) + 1(3y + 7) = 0$
 $y = -\frac{1}{2}, \frac{-7}{3}$, no relation can be established
66. (a); $5x : 6x$, Let B investment was used for y months
 $8 \times 5x : 6x \times y = 5 : 9$
 $\frac{40x}{6xy} = \frac{5}{9}$
 $y = 12$
67. (a); $P = \frac{{}^3C_1 \times {}^5C_1}{{}^{12}C_2} = \frac{5}{22}$
68. (e) Let the sum be 'x' Rs.
 $\frac{x \times 8 \times 2}{100} + \frac{x \times 10 \times 3}{100} + \frac{x \times 6 \times 3}{100} = 12800$
 $\frac{64x}{100} = 12800$
 $\text{Sum} = 12800 \times \frac{100}{64} = 20000 \text{ Rs.}$
69. (d); Let no. of students in class A, B and C be x, y and z
 $\therefore A = 83x$
 $B = 76y$
 $C = 85z$
 Now, $A + B = 79x + 79y$
 $B + C = 81(y + z) = 81y + 81z$
 $\therefore 83x + 76y = 79x + 79y$
 $4x = 3y$
 $\frac{x}{y} = \frac{3}{4}$
 And, $76y + 85z = 81y + 81z$
 $5y = 4z$
 $\frac{y}{z} = \frac{4}{5}$
 $\therefore x : y : z = 3 : 4 : 5$
 $\therefore \text{Required average} = \frac{83 \times 3 + 76 \times 4 + 85 \times 5}{12}$
 $= \frac{249 + 304 + 425}{12} = \frac{978}{12} = 81.5$
70. (e); Volume of hemi-sphere = $\frac{2}{3} \times \pi \times (27)^3 \text{ cm}^3$
 Volume of cylindrical bottle = $\pi r^2 h = \pi \times (3)^2 \times 9$

$$\therefore \text{Required No. of bottles} = \frac{\frac{2}{3} \pi \times (27)^3}{\pi \times (3)^2 \times 9} = 2 \times 3 \times 27 = 162$$

bottles

71. (c)
 72. (a)
 73. (e) 74. (d) 75. (e) 76. (b) 77. (c)
 78. (a)
 79. (a)
 80. (d); For questions (81-85)- the correct sequence is: **CFBDEA**
 81. (c) C
 82. (a) A
 83. (e) F
 84. (b) B
 85. (d) D
 86. (b); 'Guilty, fast' is the correct use. Here, Guilty will be most appropriate word because he didn't play well, where Fast and lose means to treat something without enough care or attention.
 87. (b)
 88. (a) remotely; performed is the correct option
 waning; precipitously
 89. (a) For the second blank, the suitable words are 'regime' and 'structure' but for the first blank 'existing' is not suitable.
 90. (c) The correct use is 'allowed, extortion' where 'extortion' means the practice of obtaining something, especially money, through force or threats.
 91. (c) 'Solutions' should be replaced by 'solution'.
 92. (a) Change 'If Rajeshwari would have' into 'If Rajeshwari had'.
 93. (e) No error.
 94. (c) Remove 'at' from the expression. With 'at' the meaning comes as 'to' attack someone.
 95. (c) 'Efforts' should be replaced by 'an effort' because this is singularly related here.
 96. (a)
 97. (b)
 98. (c)
 99. (b)
 100. (e)



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REASONING ABILITY

Directions (1-5): Read the following information and answer the questions based on them.

During a four-week period, each one of seven previously unadvertised products-A, B, C, D, E, F and G will be advertised. A different pair of these products will be advertised each week. Exactly one of the products will be a member of two of these four pairs. None of the other products gets repeated in any pair. Further, the following constraints must be observed

I. C is not advertised during a given week unless B is advertised during the immediately preceding week.

II. The product that is advertised twice is advertised during week 4 but is not advertised during week 3.

III. A is not advertised during a given week unless either C or G is also advertised that week.

IV. D is advertised during one of the first two weeks. G is one of the products advertised during week 3.

1. Which one of the following could be the schedule of the advertisements?
 - (a) Week 1 : A, C; week 2 : D, E; week 3 : G, F; week 4 : B, E
 - (b) Week 1 : B, D; week 2 : C, F; week 3 : G, E; week 4 : A, F
 - (c) Week 1 : D, F; week 2 : B,C; week 3 : G, A; week 4 : E, F
 - (d) Week 1 : B, E; week 2 : C, F; week 3 : G, A; week 4 : D, E
 - (e) None of these
2. If E is the product that is advertised during two of the weeks, which one of the following is a product that must be advertised during one of the weeks in which E is advertised?
 - (a) F
 - (b) A
 - (c) B
 - (d) C
 - (e) D
3. Which one of the following is a product that could be advertised in any of the four weeks?
 - (a) B
 - (b) C
 - (c) D
 - (d) E
 - (e) G
4. Which one of the following is a pair of products that could be advertised during the same week?
 - (a) F and G
 - (b) A and B
 - (c) B and C
 - (d) B and G
 - (e) D and G
5. Which of the following combination is true?
 - (a) Week 4- B and F
 - (b) Week 3- G and D
 - (c) Week 4- C and F
 - (d) Week 1- D and F
 - (e) None of these

Directions (6-8): Study the following information to answer these questions.

Brijesh gupta has three children- Kirti, Kishor and Kunal. Kunal married to Sarita, the eldest daughter of Mr. and Mrs. Mehra. The Mehra's married their youngest daughter Kiran to the eldest son of Mr. and Mrs. Arora, who have two children named Ramesh and Ratika. Ramesh is the eldest son of Mr.Arora. The

Mehra's have two more children, Sooraj and Jeevika, both older than Kiran. Shravan and Kartik are the sons of Kunal and Sarita. Sonali is the daughter of Ramesh.

6. How is Shravan related to the father of Sarita?
 - (a) Grandson
 - (b) Son
 - (c) Cousin
 - (d) Son-in-law
 - (e) None of these
7. What is the surname of Sonali?
 - (a) Arora
 - (b) Mehra
 - (c) Gupta
 - (d) Can't be determined
 - (e) None of these
8. How is Mrs. Mehra related to Kunal?
 - (a) Aunt
 - (b) Mother-in-law
 - (c) Mother
 - (d) Sister-in-law
 - (e) None of these

Directions (9-11): Study the following information to answer the given question.

Amongst five friends, P, Q, R, S and T, each bought a mobile phone for a different price. P paid more than both R and T. Only Q paid more than S. T did not pay the minimum amount. T paid Rs. 9000 for the phone.

9. Which of the following is true with regard to the given information?
 - (a) Only two people paid a price less than the price paid by Q
 - (b) T paid more than R and Q
 - (c) No one paid more amount than that paid by R
 - (d) Amongst the five friends, R is more likely to have paid Rs. 20,000 for the mobile phone
 - (e) None of true
10. If S paid 17000 more than the price paid by T, which of the following could possibly the amount paid by P?
 - (a) Rs. 36000
 - (b) Rs. 17000
 - (c) Rs. 7600
 - (d) Rs. 27000
 - (e) Rs. 6600
11. If P paid 8000 more than the price paid by T, which of the following could possibly the amount paid by Q?
 - (a) Rs. 25000
 - (b) Rs. 17000
 - (c) Rs. 7600
 - (d) Rs. 27000
 - (e) both (a) and (d)

Directions (12-16): Read the following information carefully and answer the questions given below.

In a class, five out of eight subjects, viz Sanskrit, Economics, Physics, Chemistry, Biology, English, Hindi and History are taught daily. On any one day, except for the first day of a month, only three of the subjects must be the ones that are taught on the previous day. The routine must also satisfy the following conditions-

- I. If Sanskrit is taught on a day, Hindi cannot be taught on that day.
- II. If Economics is taught on a day in one period, Biology must be one of the subjects taught in the period which is after it on the same day.

- III. If Physics is taught on a day in one period, Hindi must be one of the subjects taught in the period which is after it on the same day.
- IV. The subject which is taught in the last period on any day must be either Chemistry or English.
12. Which of the following could be subjects to be taught on the first day of a month?
 (a) Hindi, Economics, Physics, Biology, Chemistry
 (b) English, Economics, Chemistry, Biology, History
 (c) Biology, English, Physics, Hindi, Sanskrit
 (d) History, Chemistry, Physics, Hindi, English
 (e) History, Sanskrit, Hindi, English, Chemistry
13. Which of the following is true of any day's routine?
 (a) Sanskrit cannot be taught in the third period
 (b) Economics cannot be taught in the third period
 (c) Chemistry cannot be taught in the fourth period
 (d) Biology cannot be taught in the fourth period
 (e) None of the above
14. If Physics is taught in the third period, which of the following cannot be taught in the second period in that day?
 (a) Economics (b) History (c) Biology
 (d) Chemistry (e) None of these
15. If Physics and History are taught on the first day, which of the following may be the other subjects to be taught on that day?
 (a) Economics, Biology, Hindi
 (b) Biology, Chemistry, Hindi
 (c) Sanskrit, Biology, Hindi
 (d) Economics, Chemistry, Hindi
 (e) None of the above
16. If the routine of a day consists of Sanskrit, Economics, History, Biology, English, each of the following could be the next day's routine except
 (a) History, Biology, English, Hindi, Chemistry
 (b) History, Biology, Chemistry, Sanskrit, English
 (c) History, Physics, Hindi, Biology, English
 (d) Economics, Biology, Hindi, History, Chemistry
 (e) Physics, Hindi, History, Biology, English

Directions (17-21): In these questions, a relationship between different elements is shown in the statements. The statements are followed by two conclusions. Give answer-

- (a) If only conclusion I is true.
 (b) If only conclusion II is true.
 (c) If either conclusion I or II is true.
 (d) If neither conclusion I and II is true.
 (e) If both conclusions I and II are true.
17. **Statements:** $R > A \leq M, J \leq A, N > E > A$
Conclusions: I. $J > R$ II. $E \leq J$
18. **Statements:** $K = U < N \leq L, M > E < L, T \leq N$
Conclusions: I. $U > E$ II. $T = K$
19. **Statements:** $S \leq I, O \geq B, M > B \geq G = S$
Conclusions: I. $G \leq I$ II. $B \geq S$

20. **Statements:** $K \geq R \geq A < N = T < I > V$
Conclusions: I. $A > I$ II. $K \geq A$
21. **Statements:** $C \leq H = A \geq T, V > A \geq M < S = P$
Conclusions: I. $C < S$ II. $V > H$

Directions (22- 26): Read the following information carefully and answer the questions.

Shruti, Ananya, Urvashi, Apsara, Komal and Geetika joined six different renowned MBA institutes — A, B, C, D E and F and opted for six different specializations in Management—Finance, IT, Operations, HR, Marketing and General Management. Each of them has a different educational qualification out of BCA, B. Com, CA, BBM, B.Sc and B. Tech.

The following information is available about them:

- (i) Apsara joined institute B and did not take up marketing or finance and is not a B. Tech.
 (ii) The person who joined institute E opted for HR and is not a CA or a B.Sc.
 (iii) The person, who is a BCA graduate, joined the institute D and took IT.
 Whereas, the person, who is B. Com graduate, took up General Management.
 (iv) Shruti joined institute F, Urvashi is a BCA graduate and Ananya took up HR
 (v) The person who joined institute B did not take up operation.
 (vi) Shruti did not take up finance or marketing.
 (vii) The person who joined institute F has done B –tech.

22. What is the educational qualification of Komal and what is the course she opted for?
 (a) B.Sc and Finance (b) B. Com and General Management
 (c) BBM and HR (d) Can't be determined
 (e) Finance and CA
23. Which institute did the CA Graduate join?
 (a) F (b) D (c) A
 (d) None of these (e) Either A or C
24. What is the educational qualification of Geetika?
 (a) B.Sc (b) Can't be determined
 (c) BBM (d) CA (e) None of these
25. If Geetika joined the institute C, then the student who joined the institute A opted for
 (a) Finance (b) Marketing
 (c) General Marketing (d) HR (e) None of these
26. Which of the following combination is correct?
 (a) Shruti- D- operation- BCA (b) Urvashi- D- HR- BBM
 (c) Geetika- C- Finance- BSC (d) Ananya-E-IT-BCA
 (e) None of these

Directions (27–29): Study the following information carefully and answer the questions given below.

In Uttar Pradesh election, A polling was held in a Bareilly cant constituency last month. Vishal, who is a voter of that constituency, walked 40 metres towards east from his shop and took a right turn and walked 20 metres. He again took a right turn and walked 30 metres. Finally he took a right turn and

reached the polling station, which was 10 metres away from the previous point.

27. In which direction was the polling station located from his shop?
 (a) South (b) Southeast (c) Northeast
 (d) Northwest (e) East
28. What was the total distance covered by Vishal to reach the polling station?
 (a) 100m (b) 40m (c) 80m
 (d) 60m (e) 50m
29. In which direction was the polling station located from its first turning point?
 (a) South-west (b) North-west (c) North-east
 (d) South-east (e) None of these

Directions (30-35): Read the following information and answer the questions based on them.

A five member committee is to be set up by an organization for the wage revision negotiation with the finance ministry. The committee must be composed of two representatives of management, two representatives of labour and one independent specialist in financial matters.

The management representatives must be chosen from among U, V and W.

The labour representatives must be chosen from among X, Y and Z.

Either I or L must be chosen as the independent specialist.

X cannot serve together with Z.

W cannot serve together with X.

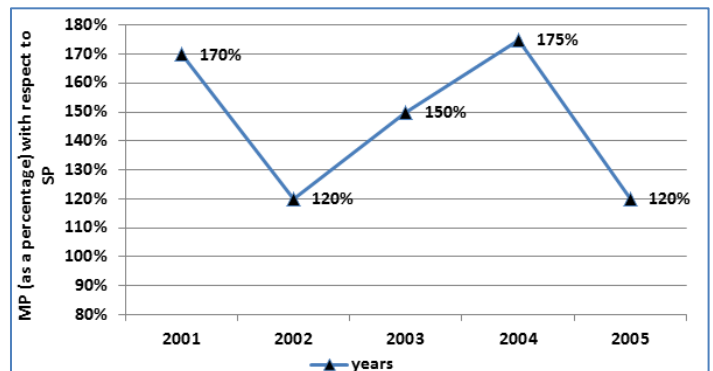
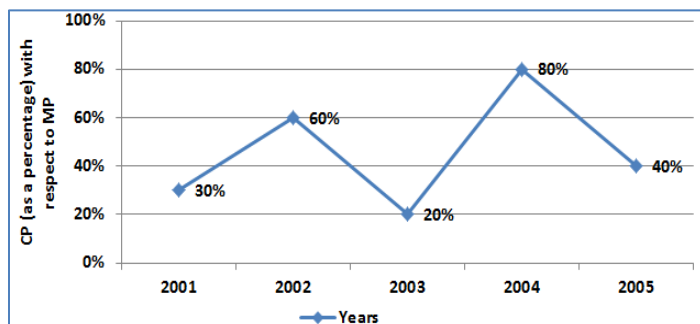
V cannot serve unless L serves at the same time.

30. Which of the following is a list of people who can serve together on the committee?
 (a) I, U, V, Y, Z (b) I, V, W, Y, Z (c) L, U, V, X, Y
 (d) L, U, V, X, Z (e) None of these

31. Which of the following persons must be chosen to serve on the committee?
 (a) I (b) U (c) V
 (d) Y (e) None of these
32. If X and Y are chosen to be the labour representatives, which of the following statements must be true?
 I. L is chosen to serve on the committee.
 II. Both U and V are chosen to present the management.
 III. I is chosen to serve on the committee.
 (a) Only I (b) Only II (c) Only III
 (d) Only I and II (e) Only II and III
33. Which of the following is a list of four persons who can be chosen to serve together on the committee, if I has been chosen?
 (a) U, V, X, Y (b) U, V, Y, Z (c) U, W, X, Y
 (d) U, W, Y, Z (e) None of these
34. If V, Y and Z have been chosen as three members of the committee, which of the following statements about the remaining two members of the committee is accurate?
 (a) U and W is the only pair who can be chosen to complete the group
 (b) L and W are the only pair who can be chosen to complete the group
 (c) L and U is the only pair who can be chosen to complete the group
 (d) Both the pair L and U and the pair L and W are possible choices for completing the group
 (e) U and I is the only pair who can be chosen to complete the group.
35. If I must be chosen to serve on the committee, which of the following persons cannot be chosen to serve on the committee?
 (a) U (b) W (c) X
 (d) Y (e) None of these

QUANTITATIVE APTITUDE

Directions (36-40): First line graph shows the Cost Price as a percentage of mark price of a product and second line graph shows the mark price as a percentage with respect to the selling price of a product in five different years from 2001 to 2005.



(Hint – Let SP of the product in 2005 = 100x, Then from the second line graph MP = 120x
 And, from the first line graph CP = 48x)

36. If the mark price of the product in the year 2002, 2003 and 2005 was same then the CP of the product in year 2002 and 2003 together was what percent more than the cost price of the product in the year 2005?
 (a) 100% (b) 125% (c) 150%
 (d) 200% (e) 50%
37. If the CP of the product in year 2006 was $\frac{3}{8}$ th times of the CP of the product in year 2005 and there was same profit (in Rs.) in year 2006 as in year 2005, then find the selling price (in Rs) of the product in year 2006 if selling price of the product in year 2005 is 100 Rs.
 (a) 50 Rs (b) 60 Rs. (c) 70 Rs
 (d) 40 Rs. (e) none of these
38. If the cost price of the product in year 2001, 2002 and 2003 were same then find the ratio of mark price of the product in the same year?
 (a) 1:3:2 (b) 3:2:1 (c) 1:2:3
 (d) 2:1:3 (e) none of these
39. If the mark price of the product in year 2003 was 1050 Rs and cost price of the product in year 2004 was 700 Rs then find the average selling price of the product in year 2003 and 2004 together?
 (a) Rs. 560 (b) Rs. 350 (c) Rs. 450
 (d) Rs. 800 (e) can't determined
40. Total CP of the products in all of the given years together was what % less then the total MP of the product in all of the given years?
 (a) 64% (b) 52% (c) 62%
 (d) 65% (e) can't be determined

Directions (41-45) : Study the table and answer the given questions.

Number of bangles sold by 6 stores during 5 months

Month	Stores				
	P	Q	R	S	T
May	154	129	87	89	165
June	121	120	87	89	172
July	145	88	105	133	104
August	169	102	130	114	129
September	128	177	94	220	131

41. Out of the total number of bangles sold by store R in June, July and August together, 35% were made of gold. What was the total number of gold bangles sold by store R in June, July and August together? (approx. value)
 (a) 127 (b) 139 (c) 121
 (d) 145 (e) 113
42. What is the difference between the total number of bangles sold by store S in June and July together and the total number of bangles sold by store P in the same months together?
 (a) 72 (b) 58 (c) 44
 (d) 64 (e) 62
43. What is the average number of bangles sold by stores Q, R and T in May?
 (a) 131 (b) 117 (c) 127
 (d) 135 (e) 123
44. What is the ratio of the total number of bangles sold by stores S and T together in August to the total number of bangles sold by the same stores together in September?
 (a) 9 : 13 (b) 7 : 9 (c) 11 : 13
 (d) 9 : 11 (e) 7 : 11
45. The number of bangles sold by store Q increased by what per cent from June to September?
 (a) 42.5 (b) 45 (c) 40
 (d) 47.5 (e) 44.5
46. A garden is 24 m long and 14 m wide. There is a path 1 m wide outside the garden along its sides. If the path is to be constructed with square marble tiles 20 cm × 20 cm, the number of tiles required to cover the path is
 (a) 1800 (b) 200 (c) 2000
 (d) 2150 (e) None of these
47. 5% of income of A is equal to 15% of income of B and 10% of income of B is equal to 20% of income of C. If the income of C is Rs. 2000, then the total income of A, B and C (in Rs.) is:
 (a) 6000 (b) 9000 (c) 12000
 (d) 18000 (e) None of these
48. 38 men, working 6 hours a day can do a piece of work in 12 days. Find the number of days in which 57 men working 8 hrs. a day can do twice the work. Assume that 2 men of the first group do as much work in 1 hour as 3 men of the second group do in $1\frac{1}{2}$ hr.
 (a) 27 days (b) 25 days (c) 20 days
 (d) 15 days (e) None of these
49. A person closes his account in an investment scheme by withdrawing Rs. 10,000. One year ago, he had withdrawn Rs. 6,000. Two years ago he had withdrawn Rs. 5,000. Three years ago he had not withdrawn any money. How much money had he deposited approximately at the time of opening the account 4 years ago, if the annual compound interest is 10%
 (a) Rs. 15,600 (b) Rs. 16,500 (c) Rs. 17,280
 (d) Rs. 15,470 (e) None of these

50. A and B enter into a partnership. A supplies whole of the capital amounting to Rs. 45,000 with the condition that the profit are to be equally divided and that B pays the interest on half the capital to A at 10 per cent per annum, but receives Rs. 120 per month for carrying on the concern. Find their total yearly profit when B's income is one half of A's income.
 (a) Rs. 9,215 (b) Rs. 9,000 (c) Rs. 9,227.5
 (d) Rs. 9,180 (e) None of these
51. X express which goes from Hyderabad to Chennai, leaves Hyderabad at 5 : 30 am and travels at a constant speed of 50 Km/h towards Nalgonda which is 100 Km away. At 6 : 00 am, Y express leaves from Nalgonda for Hyderabad at a constant speed of 40 Km/h. At 6 : 30 am Mr Shah, the Control Officer realizes that both the trains are on the same track. How much time does Mr Shah have to avert the accident?
 (a) 20 min (b) 30 min (c) 25 min
 (d) 15 min (e) None of these
52. Sanjay borrowed a certain sum from Anil at a certain rate of simple interest for 2 years. He lent this sum to Ram at the same rate of interest compounded annually for the same period. At the end of two years, he received Rs. 4,200 as compound interest but paid Rs. 4,000 only as simple interest. Find the rate of interest.
 (a) 15% (b) 20% (c) 35%
 (d) 10% (e) None of these
53. The class X of a Vidhyalaya has four sections: A, B, C and D. The average weight of the students of A, B, C together and A, C, D together are 45 kg and 55 kg respectively, while the average weight of the students of A, B, D together and B, C, D together are 50kg and 60kg respectively. Which of the following could be the average weight of the students of all the four sections together?
 (a) 47.6 kg (b) 52.5 kg (c) 53.7 kg
 (d) 56.5 kg (e) None of these
54. A train overtakes two persons walking along a railway track. The first one walks at 4.5 Km/h. The other one walks at 5.4 Km/h. The train needs 8.4 and 8.5 second respectively to overtake them. What is the speed of the train if both the persons are walking in the same direction as the train?
 (a) 66 Km/h (b) 72 Km/h (c) 78 Km/h
 (d) 81 Km/h (e) None of these
55. A 10 hectare field is reaped by 2 men, 3 women and 4 boys in 10 days. If a man, a woman and a boy work in the ratio of 5 : 4 : 2, then in how much time 6 men, 4 women and 7 boys reap a 16 hectare field?
 (a) 5 days (b) 6 days (c) 8 days
 (d) 7 days (e) None of these
- Directions (56-60):** What should come in place of question mark in the following number series?
56. 3, 14, 50, ?, 1534, 10747
 (a) 260 (b) 458 (c) 257
 (d) 267 (e) 268
57. 543, 668, 704, 1047, ?, 1840
 (a) 1110 (b) 1111 (c) 1115
 (d) 1121 (e) 1112
58. 71, 78, 149, 227, 376, 603, ?
 (a) 779 (b) 879 (c) 980
 (d) 979 (e) 880
59. 88, 44, ?, 165, 577.5, 2598.75
 (a) 60 (b) 62 (c) 64
 (d) 68 (e) 66
60. 3, 9, 31, 129, ?, 3913
 (a) 651 (b) 650 (c) 550
 (d) 551 (e) 457
- Directions (61-65)** What approximate value should come in place of the question mark (?) in the following questions?
61. $[(\sqrt{530} \times 36.003) \div 47.987] \times ? = 5863.10376$
 (a) 640 (b) 750 (c) 340
 (d) 360 (e) 680
62. $(77.987\% \text{ of } 358) + (68.55\% \text{ of } 729) = ?$
 (a) 780 (b) 705 (c) 840
 (d) 825 (e) 695
63. $\sqrt{624.995} + (4.9989)^2 = ? \div \frac{1}{4.9900865}$
 (a) 18 (b) 34 (c) 44
 (d) 10 (e) 25

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64. $989.001 + 1.00982 \times 76.792 = ?$
 (a) 1150 (b) 1070 (c) 1240
 (d) 1188 (e) 1044
65. $63.9872 \times 9449.8780 \div 243.003 = (?)^2$
 (a) 60 (b) 75 (c) 90
 (d) 40 (e) 50

Directions (66-70): In these questions, two equations numbered I and II are given. You have to solve both equations and mark the appropriate option. Give answer

- (a) if $x > y$ (b) if $x \leq y$
 (c) if $x < y$ (d) if $x \geq y$
 (e) if $x = y$ or relationship between x and y can't be established.
66. I. $9x^2 + 45x + 26 = 0$ II. $7y^2 - 59y - 36 = 0$
 67. I. $8x - 3y = 85$ II. $4x - 5y = 67$
 68. I. $x - \sqrt{2401} = 0$ II. $y^2 - 2401 = 0$
 69. I. $2x^2 + 13x + 21 = 0$ II. $3y^2 + 34y + 63 = 0$
 70. I. $12x^2 + 22x + 8 = 0$ II. $4y^2 - y - 3 = 0$

ENGLISH LANGUAGE

Directions (71-78): Read the following passage carefully and answer the questions given below it. Certain words have been printed in bold to help you locate them, while answering some of the questions.

Formal dispute settlement at the WTO is a last-resort option. Many differences between Members are unlikely ever to become an issue at the WTO, and even if they do, they will not necessarily trigger formal dispute settlement procedures. Some issues are settled at the committee level or defused in that context. The WTO Secretariat cannot challenge any Member. It has no right to prosecute. It is up to governments to decide whether or not to bring a dispute against another government to the WTO. And it is also entirely up to the complainant to argue its case. The dispute is only between governments, and only about alleged failures to comply with WTO agreements or commitments.

Settling disputes is the responsibility of the Dispute Settlement Body (DSB). The DSB has sole authority to establish "panels" of experts to consider the case, and to adopt the panels' findings or the results of an appeal. It monitors the implementation of the rulings and recommendations of panels and the Appellate Body, and has the power to authorize retaliation when a country does not comply with a ruling.

The World Trade Organization (WTO) is a relatively new international organization. However, it is responsible for a system that is over 50 years old. Established on 1 January 1995, the WTO replaced the General Agreement on Tariffs and Trade (GATT), which dated back to 1948. One of the most **profound** changes introduced by the transition from GATT to WTO in 1995 was the agreement to implement a dispute settlement process that would be speedier and more "automatic", with fixed deadlines. This Agreement is set out in the WTO Understanding on Rules and Procedures Governing the Settlement of Disputes (the "Dispute Settlement Understanding" or the "DSU"). It is more automatic in the sense that the dispute settlement process, including the adoption of the final panel report and the authorization of sanctions in case of non-compliance, can only be blocked if there is a consensus to do so (sometimes referred to as "reversed consensus"). Previously, under the GATT, it took a consensus among all countries to

adopt the report – hence the "losing" party to the dispute could always block an unfavourable ruling.

In a first stage, the DSU requires countries in dispute to consult with each other to see if they can settle their differences by themselves (for at least 60 days). Parties can also agree to ask the WTO Director-General to mediate. Mediation, conciliation and good offices may be requested at any time in parallel to the dispute settlement process. If the consultations between the parties fail, the complaining country can ask for a panel to be appointed.

Panels resemble arbitral tribunals, the composition of which is normally also under the control of the parties to the dispute. Only if the two sides cannot agree does the WTO director-general appoint them. Panels consist of three (occasionally five) experts from different countries, who examine the evidence. Panel and Appellate Body findings have to be based on the agreements cited and should normally be given to the parties to the dispute within nine months from the establishment of the panel.

In general, after two hearings with the parties (and technical experts, if necessary), the panel submits the descriptive sections of its report (facts and arguments) for comments to the parties. This is followed by an "interim report" also submitted to the parties for review, and then, the final report, which is first submitted to the parties and then later circulated to all WTO Members. **Subsequently**, the final report is passed to the DSB, which can only reject the report by consensus. The report becomes the DSB's ruling or recommendation within 60 days and is posted on the WTO website.

Panel reports can be appealed. The Appellate Body can hear on appeal only points of law decided by panels. Generally, the Appellate Body is not allowed to review facts of the case, as determined by the panel, or examine any evidence. Each appeal is heard by three members of a quasi-permanent seven-member Appellate Body set up by the DSB. The Appellate Body can uphold, modify or reverse the panel's legal findings and conclusion, and proceedings should normally not last more than 90 days. When a case has been appealed, the DSB has to adopt the reports of the Appellate Body and of the panel (as

- B. The increased volumes of carbon dioxide and other greenhouse gases released by the burning of fossil fuels, land clearing, agriculture, and other human activities, are believed to be the primary sources of the global warming that has occurred over the past 50 years.
- C. But climate scientists looking at the data and facts agree the planet is warming.
- D. While many view the effects of global warming to be more substantial and more rapidly occurring than others do,
- E. Scientists from the Intergovernmental Panel on Climate carrying out global warming research have recently predicted that average global temperatures could increase between 1.4 and 5.8 °C by the year 2100.
- F. Changes resulting from global warming may include rising sea levels due to the melting of the polar ice caps, as well as an increase in occurrence and severity of storms and other severe weather events.
- G. Global warming is the term used to describe a gradual increase in the average temperature of the Earth's atmosphere and its oceans, a change that is believed to be permanently changing the Earth's climate.
- H. the scientific consensus on climatic changes related to global warming is that the average temperature of the Earth has risen between 0.4 and 0.8 °C over the past 100 years.
79. Which of the following would be the **THIRD** sentence after rearrangement?
(a) A (b) B (c) C (d) D (e) E
80. Which of the following would be the **FIRST** sentence after rearrangement?
(a) D (b) F (c) A (d) G (e) E
81. Which of the following would be the **FOURTH** sentence after rearrangement?
(a) C (b) D (c) F (d) E (e) G
82. Which of the following would be the **SEVENTH** sentence after rearrangement?
(a) E (b) G (c) A (d) C (e) B
83. Which of the following would be the **LAST (EIGHTH)** sentence after rearrangement?
(a) F (b) A (c) B (d) D (e) C
84. Her pugnacious daughter (a)/ always do something that may incur insult (b)/ on her neighbours who hold a wrong (c)/ opinion about her family. (d)/ No error (e)
85. I saw / (a) an anxious pale girl / (b) who when asked let me know / (c) that she was suffering from consumption./ (d) No error (e)
86. Everybody knows / (a) that Ragini/ (b) is the most unique / (c) singer of this college. / (d) No error (e)
87. Mrs. Varun (a)/ not only stopped coming (b)/ here but also going to any place (c)/ which is related to her past tragedy. (d)/ No error. (e)
88. This is perhaps (a)/ the same dog which (b)/ bit her while she was returning (c)/ from market. (d)/ No error. (e)
89. Scarcely had I (a)/ walked out of my house (b)/ when I saw my (c)/ friend coming towards me. (d)/ No error. (e)
90. Walking in the field (a) / late at night, a snake bit me (b)/ and that was the reason (c)/ why I was in a hurry.(d) / No Error. (e)
91. His father (a) / forbade him to go (b) / to cinema (c) / late at night. (d) /No Error. (e)

Directions (94-100): In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words/phrases are suggested, one of which best fits the blank appropriately. Find out the appropriate word/phrase in each case.

Today, it is widely recognized that the 21st century will be driven by knowledge, and a nation's competitive advantage in the global economy will be(94)..... by a focused and innovative education agenda. To meet the challenges of this century, India needs to(95)... in a knowledge revolution that (96)to bring about systemic changes in education.

While our economy has made significant strides, the education system has not kept pace with the aspirations of the youth. The vast disparity in the country today is a result of skewed pace to knowledge. To address this, we need a substantial expansion in educational opportunities, with a special (97) on inclusion of the underprivileged.

At the bottom of the pyramid, steps must be taken to provide access to quality education. While the government has taken steps to ensure education to all, where it lacks in its efforts is the quality perspective. Being a spirally upward drive, education cannot be (98) to improve at the higher level unless it improves at the very grassroots level. The top of the pyramid, i.e. higher education, is also uneven. Students struggle to compete in the exams which..... (99) a sound knowledge of English. While candidates are expected to travel several kilometers to reach school to obtain any education, the higher education organisations often (100) candidates from vernacular media through State-sponsored exams and proudly affirm them as 'unbiased'.

94. (a) Plagued (b) swarmed (c) Sustained

- (d) Perfused (e) Suffused
 95. (a) Embarked (b) Usher (c) perlude
 (d) portent (e) trail
 96. (a) sought (b) wanted (c) seeks
 (d) attempt (e) determined
 97. (a) aspiration (b) intensity (c) important
 (d) place (e) emphasis
 98. (a) awaited (b) judged (c) thought
 (d) expected (e) said
 99. (a) demand (b) has (c) consume
 (d) expects (e) wants
 100. (a) discourages (b) disobey (c) contest
 (d) assume (e) reject

Solutions:

- (e); Option (a) is wrong because C cannot be advertised in week 1 (i.e. B than C). Option (b) is wrong because A is advertised with either C or G. Options (c) is wrong because C and B cannot be advertised together (i.e. H than J). Option (d) is wrong because D is advertised in either week 1 or week 2.
- (a); Option (b) is wrong because A is advertised with either C or G.

Options (c) and (d) are wrong because B and C cannot be advertised in week 4.

Option (e) is wrong because D must be advertised in either week 1 or 2.

- (d); Options (c) and (e) are wrong because D must be advertised in either week 1 or 2 whereas G must be advertised in week 3. Again, options (a) and (b) are wrong because C and B can be advertised in only three of the four weeks.

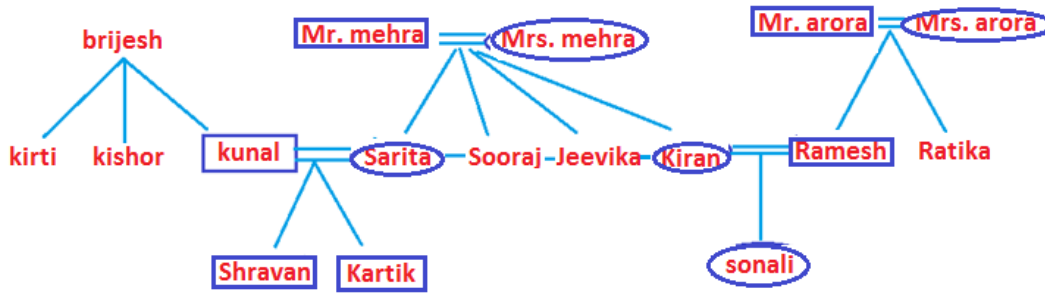
- (a); Option (b) is wrong because A is advertised with either C or G.

Option (c) is wrong because B and C cannot be advertised together.

Options (d) and (e) are wrong because D and B cannot be advertised with G.

- (e); B cannot be advertised in week 4 with F as B cannot be advertised in week 4. D can be advertised in only week 1 or 2. C cannot be advertised in week 4 as because of this B and G advertised in week 3 and it is given that A can be advertised only with C or G. D and F also cannot be advertised in week 1 as B or C cannot be advertised in week 4. so C advertised in week 3 which cannot be possible because A advertised either with G or C.

Direction (6-8):



- (a)
- (a)
- (b)

Direction (9-11):

Q > S > P > T > R

- (e)
- (b)
- (e)
- (d); Physics and Hindi must be taught on immediate periods of the same day, so option (a) is ruled out. Either Chemistry or English must be the last subject, so options (b) and (c) are ruled out. Sanskrit and Hindi cannot be taught on the same day, so option (e) is ruled out. Option (d) is correct because it satisfies all the conditions.
- (e); None of the given option is true for any day's routine.
- (a); If Physics is taught in third period, then Hindi must be taught in fourth period. Either Chemistry or English should be taught in fifth period. So, Economics cannot be taught in

second period because from II no period will be vacant for Biology.

- (b); If Physics and History are taught on the first day, then Hindi must be taught on that day. Either Chemistry or English should be taught in last period. One place is vacant which can be filled only by Biology.
- (b); Option (b) is correct because four subjects cannot be repeated on the next day.
- (d); I. J > R (False) II. E ≤ J (False)
- (d); I. U > E (False) II. T = K (False)
- (e); I. G ≤ I (True) II. B ≥ S (True)
- (b); I. A > I (False) II. K ≥ A (True)
- (b); I. C < S (False) II. V > H (True)

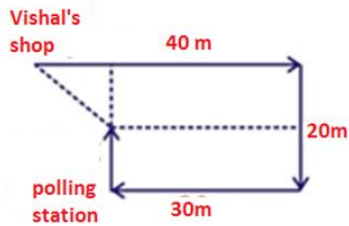
Direction (22-26):

Person	Institute	specialization	Qualification
Shruti	F	Operation	B-Tech
Ananya	E	HR	BBM
Urvashi	D	IT	BCA
Apsara	B	General Management	B-com

Komal	A/C	Finance/Marketing	Bsc/CA
Geetika	A/C	Finance/Marketing	Bsc/CA

22. (d);
23. (e);
24. (b)
25. (e)
26. (e)

Direction (27-29):



27. (b)
28. (a)
29. (a)
30. (c); Options (a) and (b) are ruled out because V and L should be together. Option (d) is ruled out because X and Z cannot be together. Option (c) is correct because it satisfies all the conditions.
31. (d); X cannot serve together with Z. So, representatives of labour will have to be X, Y or Y, Z. So, Y is always chosen to serve on the committee.
32. (d); If X and Y are chosen to be the labour representatives then W cannot be chosen. So, two representatives of management will be U and V. If V is chosen, then L must also be chosen. So, statements I and II are true.
33. (d); Options (a) and (b) are ruled out because V and L must be together. Option (c) is ruled out because W and X cannot be together. Option (d) is correct because it satisfies all the conditions.
34. (d); If V is chosen, then L has to be chosen. No condition is applicable on U and W, so they can also be chosen.
35. (c); If I must be chosen, then X cannot be chosen because if X is chosen, then W cannot be in the committee and it means that U and V has to be chosen but V and L cannot be chosen together. So, X cannot be chosen.

36. (a);

	2002	2003	2005
Let MP	100	100	100
CP	60	20	40

$$\text{Required \%} = \frac{80-40}{40} \times 100 = 100\%$$

37. (c); Given

SP of the product in 2005 = 100
 \therefore MP of the product in 2005 = 120
 \therefore CP of the product in 2005 = $\frac{40}{100} \times 120 = 48$

Profit (in Rs) = 100 – 48 = 52 Rs

Now, CP of the product in 2006 = $\frac{3}{8} \times 48 = 18$ Rs
 \therefore Required SP = 18 + 52 = 70 Rs

38. (d); Let

	2001	2002	2003
MP of the product	100_{x_2}	100_{x_1}	100_{x_3}
CP	30_{x_2}	60_{x_1}	20_{x_3}

\therefore Required ratio = 200 : 100 : 300
 = 2 : 1 : 3

39. (b); Given

MP of the product in year 2003 = 1050

\therefore SP of the product in year 2003 = $\frac{100}{150} \times 1050 = 700$ Rs

And, Given CP of the product in year 2004 = 800 Rs

\therefore MP of the product in year = $\frac{100}{80} \times 800 = 1000$ Rs

Now, SP of the product in year 2004 = $\frac{100}{175} \times 1000 = \frac{4000}{7}$ Rs

\therefore Average Selling price = $\left(700 + \frac{4000}{7}\right) \times \frac{1}{2}$
 = $\frac{4900}{7} \times \frac{1}{2}$
 = 350 Rs.

40. (e); Since we don't know exact values of M.P. and C.P. Hence the answer can't be determined.

41. (e); Total number of gold bangles sold by store R in June, July and August together = 35% of (87 + 105 + 130)
 = 35% of 322 = $\frac{35}{100} \times 322 = 112.7 \approx 113$
 = 7 × 19 = 133

42. (c); Reqd difference

= (121 + 145) – (89 + 133) = 266 – 222 = 44

S43. Ans.(c)

Sol. Reqd average

= $\frac{129+87+165}{3} = \frac{381}{3} = 127$

44. (a); Reqd ratio = $\frac{(S+T)_{\text{August}}}{(S+T)_{\text{September}}}$
 = $\frac{114+129}{220+131} = \frac{243}{351} = \frac{9}{13} = 9 : 13$

45. (d); Reqd% increase = $\frac{177-120}{120} \times 100$
 = $\frac{57}{120} \times 100 = \frac{57 \times 5}{6} = 47.5\%$

46. (c); Given, length of garden = 24 m and Breadth of garden = 14 m

\therefore Area of the garden = 24 × 14 m^2 = 336 m^2 .

Since, there is 1 m wide path outside the garden

\therefore Area of Garden (including path) = (24 + 2) × (14 + 2) = 26 × 16 m^2 = 416 m^2 .

Now, Area of Path = Area of garden (including path)

– Area of Garden

= 416 – 336 = 80 m^2 .

Now, Area of Marbles = 20 × 20 = 400 cm^2

\therefore Marbles required = $\frac{\text{Area of Path}}{\text{Area of Marbles}}$

$$= \frac{80,000}{400} = 2000$$

47. (d); 5% of A = 15% of B $\Rightarrow 5A = 15B \Rightarrow A = 3B$
 10% of B = 20% of C $\Rightarrow 10B = 20C \Rightarrow B = 2C$
 If C = 2000, then B = 4000
 $\therefore A = 12000$

Hence, the total income of A, B and C = 18000.

48. (a); 2×1 men of first group = 3×1.5 men of second group
 Or, 2 men of first group = 4.5 men of second group
 $\therefore 38$ men of first group = $\frac{4.5}{2} \times 38 = 19 \times 4.5$ men of second group
 $\therefore (19 \times 4.5)$ men do 1 work, working 6 hrs/day in 12 day
 $\therefore 1$ man does 1 work working 1 hr/day in $(12 \times 19 \times 4.5 \times 6)$ days.

$$\therefore 57 \text{ men do 2 work working 8 hrs/day in } = \frac{12 \times 19 \times 4.5 \times 6}{57 \times 8} \times 2 = 27 \text{ days.}$$

49. (d); Suppose the person had deposited Rs.x at the time of opening the account.

\therefore After one year, he had

$$\text{Rs. } \left[x + \frac{x \times 10 \times 1}{100} \right] = \text{Rs. } \frac{11x}{10}$$

After two years, he had

$$\text{Rs. } \left[\frac{11x}{10} + \frac{11x}{10} \times \frac{10 \times 1}{100} \right] = \frac{121x}{100} \quad (1)$$

After withdrawing Rs. 5,000 from Rs. $\frac{121x}{100}$, the balance =
 Rs. $\frac{121x - 500000}{100}$

After 3 years, he had

$$\frac{121x - 500000}{100} + \frac{121x - 500000}{100} \times \frac{10 \times 1}{100} = \frac{11(121x - 500000)}{1000} \quad (2)$$

After withdrawing Rs. 6,000 from amount (2), the balance

$$= \text{Rs. } \left[\frac{1331x}{1000} - 11500 \right]$$

\therefore After 4 years, he had

$$\text{Rs. } \left[\frac{1331x - 5500000}{1000} \right] + 10\% \text{ of Rs. } \left[\frac{1331x - 5500000}{1000} \right] = \text{Rs. } \frac{11}{10} \left[\frac{1331x}{1000} - 11500 \right] \quad (3)$$

[After withdrawing Rs. 10,000 from amount (3), the balance 0]

$$\therefore \frac{11}{10} \left[\frac{1331x}{1000} - 11500 \right] - 10,000 = 0$$

$$\Rightarrow x = \text{Rs. } 15,470.$$

50. (d); Let the yearly total profit be Rs. x

Amount paid to B as salary = Rs. $(120 \times 12) = \text{Rs. } 1,440$

$$\text{Share of each} = \text{Rs. } \left(\frac{x - 1440}{2} \right)$$

$$\text{Interest paid by B} = \text{Rs. } \left(\frac{22500 \times 10}{100} \right) = \text{Rs. } 2,250$$

Total money received by A

$$= \text{Rs. } \left(\frac{x - 1440}{2} + 2250 \right) = \text{Rs. } \left(\frac{x + 3060}{2} \right)$$

Total money received by B

$$= \text{Rs. } \left[\left(\frac{x - 1440}{2} \right) + 1440 - 2250 \right] = \text{Rs. } \left(\frac{x - 3060}{2} \right)$$

$$\text{Given: } \frac{1}{2} \left(\frac{x + 3060}{2} \right) = \left(\frac{x - 3060}{2} \right)$$

$$\text{Or, } \frac{x + 3060}{4} = \frac{x - 3060}{2}$$

Or, $x = 9180$

Hence, the total profit = Rs. 9,180.

51. (a); Distance travelled by X in 1 hr = 50 km

Distance travelled by Y in $\frac{1}{2}$ hr = 20 km

At 6 : 30, distance between 2 trains = 30 km

Time taken to travel this 30 km

$$= \frac{30}{50 + 40} = \frac{1}{3} \text{ hr}$$

$$= \frac{1}{3} \times 60 = 20 \text{ min.}$$

52. (d); Suppose the sum borrowed = Rs. x

Rate of interest = R%

Time = 2 years

$$\therefore 4000 = \frac{x \times R \times 2}{100} \Rightarrow Rx = 200000 \quad (1)$$

$$\text{Now, } x \left(1 + \frac{R}{100} \right)^2 = x + 4200$$

$$\Rightarrow \frac{xR^2}{10000} + \frac{2RX}{100} = 4200$$

$$\Rightarrow 20R + 4000 = 4200$$

$$\Rightarrow R = 10$$

53. (b); Let a, b, c, d, the number of students in section A, B, C, D respectively

Then,

$$= \frac{45(a+b+c) + 55(a+c+d) + 50(a+b+d) + 60(b+c+d)}{3(a+b+c+d)}$$

$$= 50 + \frac{5b + 10c + 15d}{3(a+b+c+d)}$$

Clearly, a, b, c, d are natural no. put a = b = c = d = 1

Then, required average = $50 + \frac{30}{12} = 50 + 2.5 = 52.5$

54. (d); Let the speed of train be x Km/h.

As both the persons are walking in the same direction of train.

$$\text{So, } (x - 4.5) \times 8.4 = (x - 5.4) \times 8.5 \quad (\text{length of train})$$

$$\Rightarrow 0.1x = 8.1$$

$$\Rightarrow x = 81 \text{ Km/h.}$$

55. Ans.(c)

$$\text{Sol. } M : W : B = 5 : 4 : 2$$

$$\therefore 4M = 5W$$

$$\text{And } 2W = 4B$$

$$\frac{7.5 \times 10}{10} = \frac{15 \times x}{16}$$

$$x = 8 \text{ days}$$

56. (c); $3 \times 3 + 5 = 14$

$$14 \times 4 - 6 = 50$$

$$50 \times 5 + 7 = \boxed{257}$$

$$257 \times 6 - 8 = 1534$$

$$1534 \times 7 + 9 = 10747$$

57. (b); $+5^3, +6^2, +7^3, +8^2 + 9^3 \dots \dots$

$$\therefore 1047 + 64 = 1111$$

58. (d); In this series previous term is added to the next term

$$\therefore 78 + 71 = 149$$

$$149 + 78 = 227$$

$$227 + 149 = 376$$

$$376 + 227 = 603$$

$$603 + 376 = 979$$

59. (e); $\times 0.5, \times 1.5, \times 2.5, \times 3.5, \times 4.5 \dots \dots$

- $\therefore 44 \times 1.5 = 66$
60. (a); $(\times 2 + 3), (\times 3 + 4), (\times 4 + 5) \dots$
 $129 \times 5 + 6 = 651$
61. (c); ≈ 340
62. (a); $\approx 280 + 500$
 ≈ 780
63. (d); $\approx \frac{25+25}{5}$
 ≈ 10
64. (b); $\approx 990 + 77.5$
 ≈ 1070
65. (e); ≈ 50
66. (c); $x_1 = \frac{-13}{3}, x_2 = \frac{-2}{3}$
 $y_1 = 9, y_2 = \frac{-4}{7}$
 $\therefore x < y$
67. (a); $x = +ve$
 $y = -ve$
 $\therefore x > y$
68. (d); $x = 49$
 $y = \pm 49$
 $\therefore x \geq y$
69. (e); $x_1 = 3.5, x_2 = -3$
 $y_1 = -9, y_2 = \frac{-7}{3}$
 \therefore No relation
70. (e); $x_1 = -0.5$
 $x_2 = \frac{-4}{3}$
 $y_1 = +1$
 $y_2 = \frac{(-3)}{4}$
 \therefore No relation
71. (b); Read the first paragraph of the passage carefully. Except option (IV), all are true regarding the meaning of "Formal dispute settlement at the WTO is a last-resort option".
72. (e); It does not require any approval. For reference, read the second paragraph of the passage.
73. (c); Only options I, II and III are correct. Refer the third sentence onwards of the third paragraph of the passage.
74. (a); Refer the second sentence of the second-last paragraph of the passage, "If a country is found to be at fault with the rules, it is expected to promptly correct the measure at issue." Hence option (a) is correct.
75. (d); For option III, Refer the first sentence of the seventh paragraph. For option IV, Refer the fifth sentence of the second-last paragraph. Option II is wrong in that mediation etc. part are not independent of consultations (Refer fourth paragraph).
76. (d); Option (d) matches the given figures correctly.
77. (e); **Subsequent** means coming after something in time; following hence **ensue** is the word most similar in meaning.
78. (e); **Profound means** (of a state, quality, or emotion) very great or intense hence **fervent** is the word most similar in meaning.
- Directions (79-83):** The correct sequence to form a meaningful paragraph is **GACDHBEF**
79. (c); The correct sequence to form a meaningful paragraph is **GACDHBEF**
80. (d); The correct sequence to form a meaningful paragraph is **GACDHBEF**
81. (b); The correct sequence to form a meaningful paragraph is **GACDHBEF**
82. (a); The correct sequence to form a meaningful paragraph is **GACDHBEF**
83. (a); The correct sequence to form a meaningful paragraph is **GACDHBEF**
84. (a); Use "the roof of the building" in place of "The building's roof" as we don't use apostrophe 's with the non-living things.
85. (c); "Use the residence of one of the ministers" in place of "one of the Minister's residences".
86. (b); Use 'does' in place of 'do' as the subject of the sentence is in singular number.
87. (b); 'A pale anxious girl' is the correct usage as the adjective for human is used after the adjective of colour.
88. (c); 'the most' will not be used before 'unique', use 'a' instead .
89. (b); 'Not only' should be used before 'coming' as 'but also' is used before 'going'.
90. (b); Use 'that' in place of 'which' as the verb (was) is explicit.
91. (e); No error.
92. (a); Use 'while I was walking' in place of 'walking'
93. (c); Use 'the' before cinema
94. (c); Ans.(b)
96. (c);
97. (e)
98. (d)
99. (a)
- 100.(e)

SBI PO Mains 2017: Practice Set

REASONING ABILITY

Directions (1-5): These questions are based on the following information.

In a horse racing each of the six Jockeys – M, N, O, P, Q and R is riding a different horse namely- Tiger, Tuffy, Vicky, Jacky, Rocky and Tommy but not necessarily in the same order. Each of the six gamblers Ravi, Ritesh, Raman, Rakesh, Rahul and Rohan bet on exactly one among the given horses. These horses made to participated exactly in one race among Endurance race, Harness race, Flat race and Hunt race and finished the race in the top three positions only. No two of them got the same position in the same type of racing.

Only Tiger participates in Endurance race and its jockey is P. Only Rocky finished the race at the 3rd position. Raman bets on the horse which participates in Harness race, but did not finish the race at the 3rd position. Rakesh bets on the horse, whose jockey is R and finished the race either at the 1st or at the 2nd position. Vicky's jockey is M and participates in flat race. Tuffy finished the race at the 1st position but its jockey is neither N nor Q. Among the given horses only two horses participate in Harness race, neither of whose jockey is N. Tuffy, Tiger and the horse whose jockey is R finished the race at the same position. N finished the race at the 2nd position. Rahul bets on a horse which finished the race at the 2nd position, but its jockey is not N. Ravi bets on Tommy, which participates with Jacky in the same race. Rohan does not bet on Tiger.

- Which of the following statements is/are true?
 - Tommy participates in Hunt race.
 - Ritesh bets on Tiger.
 - Tommy finished the race in the 1st position.
 - Only (i)
 - All the three
 - Only (ii)
 - Only (i) and (ii)
 - None of these
- Which jockey finished the race at the 1st position in Harness race?
 - M
 - N
 - O
 - R
 - None of these
- Who bets on Jacky?
 - Raman
 - Rahul
 - Rakesh
 - Cannot be determined
 - Ritesh
- Who among the following Gambler bets on the Horse Tuffy?
 - Rahul
 - Raman
 - Ritesh
 - Rohan
 - None of these
- Which of the following combination is incorrect?
 - M- Vicky- Flat- Rahul- 2nd

(b) Q- Rocky- Harness- Rohan- 3rd

(c) R- Jacky- Hunt- Rakesh- 2nd

(d) N- Tommy- Hunt- Ravi- 2nd

(e) None of these

6. **Statement:** The fall of Dilma Rousseff from being one of the most popular politicians to an impeached leader is much more than a story of a "corrupt" President being stripped of her powers by a righteous legislature. The exit of Brazil's first woman President brings the 13-year rule of the left-leaning Workers' Party to an end. The charge levelled against her is that she used illegal bookkeeping manoeuvres to hide a growing deficit.

Which of the following **assumption(s)** is/are implicit from the given statement?

- There were numerous marches in cities with very large turnouts protesting her government.
 - The charges of her impeachment were a result of political and economic maneuvering as opposed to corruption.
 - Ms Rousseff cooked the books to improve the poor conditions of under dimensional Brazil, its welfare schemes for public housing, sanitation and education.
- All of the above
 - Only II
 - Only II and III
 - None of the above
 - Only I and III

Directions (7–11): Study the following information and answer the questions that follow:

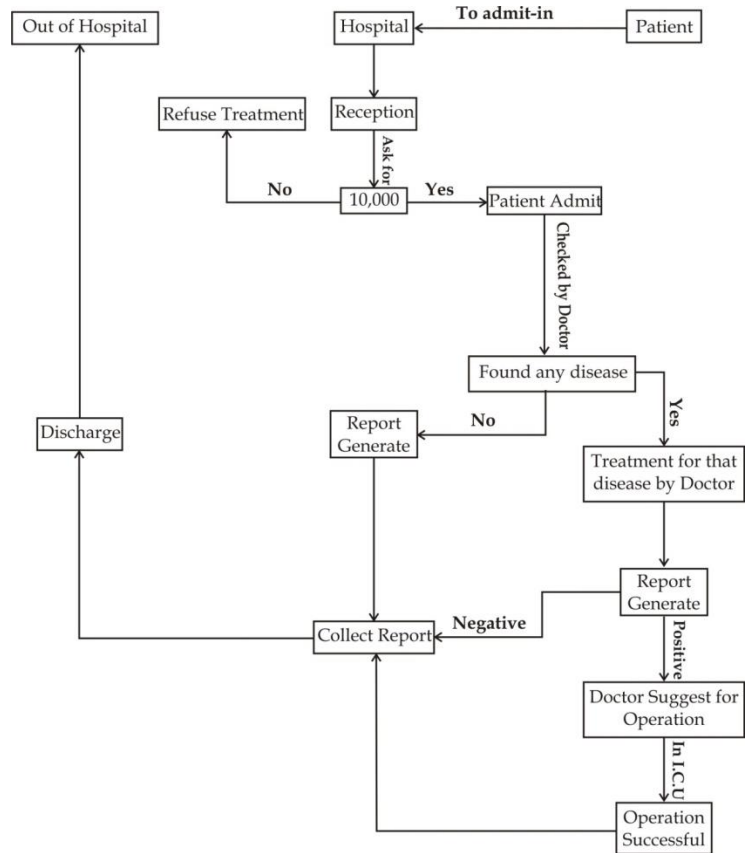
Eight animals Baloo, Bagheera, Raksha, Akela, Mowgli, Shere Khan, Louie and Kaa are get together for important meeting which is led by Shere Khan and they are sitting in a circular shape for the meeting but they are not facing towards each other. All the eight animals have single issue i.e. they get panic from some most dangerous hunters namely Gabbar, Samsher, Malkhan and Bhukkad and each hunter is responsible for panic of two animals, but not necessarily in the same order. These animals are from different parts of jungle, viz. Badapura, Basrehar, Bhartana, Chakkarnagar, Mahewa, Saifai, Takha and Jaswantnagar. No two animals who are victim of same hunter are sitting adjacent to each other except those who are victim of Malkhan. Animals, who are victim of Bhukkad, are sitting opposite to each other. Akela is neither from Jaswantnagar nor from Bhartana. Animal who is from Takha is sitting on the immediate right to the animal who is from Jaswantnagar. Raksha, who is from Chakkarnagar, is victim of Gabbar. Raksha is sitting on the immediate right of Shere Khan, who is victim of Malkhan. Shere Khan is not from Bhartana. Bagheera, who is

from Basrehar, is neither victim of Bhukkad nor of Gabbar or Samsher. Bagheera is sitting opposite to Mowgli. Only Baloo, who is from Saifai is sitting between Mowgli, who is from Takha and the animal who is from Mahewa. Both the animals who are victim of Samsher are sitting adjacent to animal who is victim of Bhukkad.

7. Who among the following is from Badapura?
 - (a) Louie
 - (b) Shere Khan
 - (c) Kaa
 - (d) Can't say
 - (e) None of these
8. Kaa belongs to which part of Jungle?
 - (a) Jaswanthnagar
 - (b) Mahewa
 - (c) Bharthana
 - (d) Can't say
 - (e) None of these
9. Who among the following animals are victim of Bhukkad?
 - (a) Baloo and Bagheera
 - (b) Baloo and Raksha
 - (c) Louie and Kaa
 - (d) Data inadequate
 - (e) None of these
10. Who among the following animal belongs to Jawantnagar if all of the animal are arranged in the alphabetical order in clockwise starting from Baloo?
 - (a) kaa
 - (b) Raksha
 - (c) both (a) & (b)
 - (d) Can't Say
 - (e) None of these
11. Which of the following statements is false?
 - (a) The animal from Saifai is sitting opposite to the animal from Badapura .
 - (b) The animal from Basrehar is sitting opposite to the animal from Takha.
 - (c) Kaa and Louie are sitting opposite to each other.
 - (d) Bagheera and Louie are sitting opposite to each other.
 - (e) None of these
12. **Statement:** The National Health Accounts data for 2013-14 present fresh evidence that India continues to have a non-serious approach to the provision of universal health coverage to all its citizens. India's health system is one of the most privatized in the world, poorly regulated and accessible only to those with income levels well above the average. Which of the following courses of action should be taken by the government to make reliable changes in this poorly regulated health system?
 - I. Raising government expenditure on health, in conjunction with the states, should be a considerable change in this system.
 - II. The government should shrink their responsibility to provide free and easily accessible health care to poor and middle classes.
 - III. The government should make more allocations on public health system and make it accessible to the deserving people.
 - (a) All of the above
 - (b) All except I

- (c) All except II
- (d) All except III
- (e) None of the above

Direction (13-17): See the following structure carefully and answer the given questions.



Patient 'Z' wants to admit in hospital. So, different conditions are given in Data flow diagram. So after analyzing above DFD diagram you have to answer the given questions:

13. If a patient wants to submit eight thousand rupees in the reception, then what will be the next scene?
 - (a) Patient will be admitted in hospital and he will be checked by the doctor.
 - (b) After submitting eight thousand rupees, patient receives a receipt of bill.
 - (c) There is no step.
 - (d) Receptionist refuses to take money from the patient.
 - (e) After submitting the money patient collect the report.
14. Which condition is sufficient to make sure that patient is discharged from the hospital?
 - (a) If patient submit seven thousand rupees in the reception.
 - (b) If patient report is negative.
 - (c) If required treatment facility is not available in the hospital.
 - (d) Both (e) and (b)
 - (e) If the operation of the patient become successful.
15. Before which step patient can collect his/her report, which is generated by the doctor?
 - (a) Patient will be admitted in hospital and he will be checked by the doctor.
 - (b) After submitting eight thousand rupees, patient receives a receipt of bill.
 - (c) There is no step.
 - (d) Receptionist refuses to take money from the patient.
 - (e) After submitting the money patient collect the report.

- (a) If patient report shows negative.
 (b) If in ICU, patient operation is successful.
 (c) All are true.
 (d) If patient have no disease.
 (e) After the report generation, patient can collect his/her report.
16. Which of the following step is logically missing in Data flow diagram?
 (a) None of these.
 (b) If only eight thousand rupees is submitted by the patient then receptionist said to submit two thousand more money.
 (c) To complete treatment of patient doctors should go for two-three checkups.
 (d) Name of disease which should be declared by doctor before that treatment.
 (e) Before admitting in hospital, patient should inform their relatives.
17. Which of the following condition shows that patient will not be admitted in hospital?
 (a) When patient is checked by the doctor and he does not find any disease.
 (b) When doctor suggest for operation and Patient refuses the doctor suggestion.
 (c) None of these.
 (d) If patient did not submit required money as demanded by the hospital.
 (e) When patient has no disease.
18. Prime Minister Narendra Modi gave hard hitting remarks at G20 summit in china "One nation in South Asia is spreading terror in the region". The growing forces of violence and terror pose a fundamental challenge. There are some nations that use it as an instrument of state policy. India has a policy of zero tolerance to terrorism. Because anything less than that is not enough, Mr. Modi said. "For us a terrorist is a terrorist."
 Which of the following statement can be inferred from above sentences?
 (I) India had agonized a lot from terrorist attack.
 (II) The country which is indicated by PM Modi will take strong action against terrorism.
 (III) Govt. of India is too much concern about terrorist activity and cannot indulge terrorism.
 (a) Only I (b) Only III (c) II and III
 (d) Only I and III (e) None of these
19. Boko Haram is an Islamic terrorist movement that operates out of north-eastern Nigeria. There are up to 10 000 members of the group, which wants to establish an Islamic state in Nigeria. The organization has been active since 2009, killing more than 5000 civilians, mainly in Nigeria's Northern provinces. In the last five years Boko Haram have kidnapped hundreds of men, women and children, including some western tourists. In 2011 Boko Haram a car bomb exploded in a UN office in the capital, Abuja, killing 21 people. The army's attempt to fight Boko Haram has not been successful. The country's armed forces are short of money. Some officers and soldiers are corrupt and sympathise with Boko Haram.
 Which of the following **substantiates** barbarism of Boko Haram?
 (I) Presence of more than 10000 members in Boko Haram group to establish Islamic states.
 (II) Killing and kidnapping of more than 5000 civilians including men, women and children since 2009.
 (III) Brutal attack at UN office in form of car bomb attack in capital Abuja results in death of 21 people.
 (a) Only II (b) Only I and II (c) Only III
 (d) Only II and III (e) None of these
- Directions (20-24):** These questions are based on the following information.
 Six friends Robin, Robert, Rihana, Russell, Ryan and Rachel are living in United States and working in different magazine groups viz; Reader's digest, Redbook, Real Simple, Rolling Stone, Reminisce and Reason. They plan to get together at company for some official work. The owner of the companies allotted a different cabin among 1 to 6 to each of these six persons. Each of the above mentioned magazines was released in a different years among 1997, 1998, 2001, 2002, 2008 and 2009.
- The magazine in which Rihana works was released in 2001. He works in an odd numbered cabin.
 - Robert works in cabin 2. Reader's digest was released immediately after Redbook.
 - Ryan works in cabin 1. The magazine in which Rachel works was released immediate after the Reason was released and he works in cabin 6.
 - Rihana and Russell do not work in Reader's digest, Reminisce or Reason Magazine. Rolling Stone was released in 2008.
 - Real Simple was released recently and Robin works in it in an even numbered cabin.
 - Neither the employee of Reason nor Reminisce is allotted cabin 2.
20. Who among the following person works in Reminisce?
 (a) Robert (b) Ryan (c) Rachel
 (d) None of these (e) Russell
21. In which year was the magazine Reason released?
 (a) 2002 (b) 1998 (c) 1997
 (d) 2001 (e) None of these
22. In which cabin Russell works?
 (a) 6 (b) 5 (c) 3
 (d) Cannot be determined (e) 2
23. Which of the following combination is correct?
 (a) Ryan- 1- Reason- 2008
 (b) Rachel- 4- Reminisce-1998
 (c) Rihana-5- Rolling Stone- 2008
 (d) Robert-2-Reader's digest- 2002

(e) Russell- 3- Rolling Stone- 2008

24. Who among the following friend works in Cabin 5?

- (a) Robert (b) Rihana (c) Russell
(d) Ryan (e) Can't be determined

Direction (25-26): India bagged a total of two medals, one silver and one bronze from 117 athletes in Olympics. Badminton player PV Sindhu won historic silver medal in women's singles badminton event. On the other hand, Wrestler Sakshi Malik secured a bronze in the 58 kg category to become India's first female wrestler to win an Olympic medal. And Dipa Karmakar from India was able to qualify one artistic gymnast into the Olympic competition for the first time since 1964. Despite the fact that these all sportswomen belonged from families with low income, still they managed to gather all their confidence and achieve what they aspire to be. This empowerment of women by encouraging them to participate in sports has opened up many new and exciting avenues for them in the world of sports.

25. Which of the following statement *negates* about the fact of empowerment of women?

(I) It was matter of proud for India that Indian women bagged two medals in Summer Olympics.

(II) Despite of giving all possible facilities Indian women athletes was unable to won even a single gold medal.

(III) Sindhu, Sakshi and Dipa creates sensation and generates a ray of hope among other Indian women athletes to build their career and make their country proud.

- (a) Only I (b) Only II and III (c) Only II
(d) Only I and III (e) None of these

26. Which of the following can be **assumed** from the above statement?

(I) There was lack of practice or poor management which results no medal by Indian men athletes.

(II) For next Olympics Indian govt. will form a task force and apply extra effort to win more medals.

(III) Since 1964 Indian gymnast was not get proper training, support and facilities from Indian Government.

- (a) Only I (b) Only III (c) Only II and III
(d) Only II (e) All of these

Directions (27-31): Study the following information carefully and answer the given questions.

Mohan, Mohit, Mukul and Mayank are four college students who meet in a train and then become friends. All of them belong to different cities, ie Mathura, Mandi, Meerut and Mhow, but not necessarily in the same order. Also they are going to visit different destinations viz; Manali, Mussoorie, Mount-Abu and Munnar but not necessarily in the same order. They are studying in different cities of india, ie Mumbai, Mangalore, Mysore and Marigaon, but not necessarily in the same order. They have different berth number in the train from 1 to 4. The one who is going to Manali got the 4th number berth But he is not Mohit. The one who is going to Munnar got the 1st number berth. The one who belongs to Mandi got the 3rd number berth, while the one who is studying in Mumbai got the 2nd number berth. Mohan

and Mohit are studying neither in Mumbai not in Mangalore. They are neither going to Mussoorie nor to Mount-Abu. They neither belong to Mhow nor to Mandi. The one who is studying in Mysore does not belong to Meerut. The one who belongs to Mandi is not Mayank. The one who is studying in Mangalore does not go to Mussoorie .

27. In which of the following cities Mohan is going?

- (a) Manali (b) Mount-Abu (c) Munnar
(d) Mussoorie (e) Data inadequate

28. Which of the following combinations is definitely true in respect of the given information?

- (a) Mohit – Mount-Abu – 2 (b) Mukul – Manali – 4
(c) Mayank – Mussoorie – 3 (d) Mohan – Munnar – 1
(e) None is true

29. Mohit belongs to which of the following city?

- (a) Mathura (b) Meerut (c) Mhow
(d) Can't be determined (e) None of these

30. Who got the second number berth in the train?

- (a) Mohit (b) Mukul (c) Mohan
(d) Mayank (e) Can't be determined

31. Which of the following information is not true regarding Mukul?

- (a) Mukul got 3rd number berth
(b) Mukul belongs to Mathura.
(c) Mukul is going to Mount-Abu.
(d) Mukul is studying in Mangalore.
(e) None of these

32. Secondary school graduates in Japan score significantly higher on tests of science and mathematics than do students at the same level in the United States. Some educational reformers in the United States attribute this difference to the more rigid and rigorous Japanese secondary school programme, which emphasizes required courses, long hours of study and homework, and memorization to a far greater degree than do American schools.

Which of the following, if true, would most seriously weaken the conclusion drawn by the above passage?

- (a) The Japanese elementary school programme is far less rigid and structured than the elementary school programmes in most United States schools.
(b) Many Japanese parents and educators decry the Japanese educational system, saying that it stifles independent thinking on the part of students.
(c) United States schools, in which creativity and flexible student schedules are emphasized, usually produce students with science and maths scores equal to those of the best Japanese students.
(d) On an average, Japanese students score lower than United States students on tests of logical thinking, language arts, and communications skills.
(e) A higher percentage of American students go for higher education than in Japan.

Directions (33–37): Each of the following below consists of a question and three statements numbered I, II and III given below it. You have to decide whether the data provided in the statement are sufficient to answer the question.

- 33.** How many daughters does P have?
 I. B and D are sisters of M.
 II. M's father T is husband of P.
 III. Out of the three children whom T has, only one is a boy.
 (a) I and III
 (b) All I, II and III are required to answer the question
 (c) II and III
 (d) Question can't be answered even with all I, II and III
 (e) I and II
- 34.** Who among P, Q, R, S, T and U each having a different height, is the tallest?
 I. Q is taller than P, but shorter than T.
 II. Only two of them are shorter than R.
 III. S is taller than only U.
 (a) I and II (b) I and III (c) II and III
 (d) All I, II and III are required to answer the question
 (e) All I, II and III are not sufficient to answer the question.
- 35.** Towards which direction is House J from House W?
 I. House R is to the West of House W and to the North of House T.
 II. House Z is to the East of House J and to the South of House T.
 III. House M is to the North-East of House J and North of House Z.
 (a) Only III (b) II and III
 (c) All I, II and III are required to answer the question
 (d) Question can't be answered even with all I, II and III
 (e) None of the above
- 36.** On which day of the work starting from Monday did Mayank visit Chennai?
 I. Mayank took leave on Wednesday.
 II. Mayank visited Chennai the day after his mother's visit to his house.
 III. Mayank's mother visited Mayank's house neither on Monday nor on Thursday.
 (a) II and III (b) I and II (c) I and III
 (d) All I, II and III are required to answer the question.
 (e) Question can't be answered even with I, II and III.
- 37.** How many male and females are there in the company Y?
 I. In the company' there are 158 persons. There are more females than males.
 II. Only 1/11 of the females wear formals, while 1/7 of the males wear formals.
 (a) Only I (b) Only II (c) Either I or II
 (d) Neither I nor II (e) Both I and II
- 38.** Foreign-made electronics products gained popularity in the United States during the 1970s primarily because of their low cost. In recent years, changes in the exchange rates of currencies have increased the prices of imported electronic

products relative to those produced in the United States. However, sales of imported electronics products have not declined in recent years.

Which of the following, if true, would best explain why sales of imported electronics products remain high?

- (a) Trade ministries in foreign nations have pursued policies that prevented prices of electronics products from rising even faster.
 (b) The cost of manufacturing electronics products abroad is still lower than it is in the United States.
 (c) A coming shortage in consumer credit in the United States is expected to depress sales of imported products during the next two years.
 (d) American consumers now perceive the quality of imports as being high enough to justify the increased prices.
 (e) United States manufacturers have tried to convince Americans to buy United States-made products for patriotic reasons.

Direction (39-43): Read the given information carefully and answer the given questions.

Ten critics are sitting in a News channel for the discussion on the GST bill which has recently passed in the parliament. They are sitting in two parallel rows containing five people each in such a way that there is an equal distance between adjacent persons. In row 1 A, B, C, D and E are seated and all of them are facing North and in row 2 P, Q, R, S and T, are seated and are facing south, but not necessarily in the same order. Each person also likes different present leaders, namely Kejriwal, Modi, Mayawati, Mulayam, Rahul, Sonia, Rajnath, Sushma, Nitish and Amit Shah (not necessarily in the same order).

E sits exactly in the centre of the row and faces the one who likes Mayawati. Only one person sits between S and the one who likes Mayawati. S faces one of the immediate neighbours of the one who likes Rahul. Only two people sit between B and the one who likes Rahul. B faces the one who likes Sushma swaraj. P faces one of the immediate neighbours of C. P does not like Sushma. D is an immediate neighbour of C. The one who likes Rajnath is not an immediate neighbour of C. T is not an immediate neighbour of P and faces the one who likes Kejriwal. R faces the one who likes Nitish. The one who likes Amit Shah faces north. P does not face the one who likes Amit Shah. The one who likes Mulayam sits on the immediate right of the person who likes Sonia. S does not like Mulayam.

- 39.** Which of the following pairs facing each other represent the people sitting third to person who sit at the extreme ends of two rows?
 (a) S, D (b) Q, D (c) P, E
 (d) Q, A (e) R, A
- 40.** If the position of the persons sitting at the corners are interchanged with the person facing them then who sits third to the next of D ?
 (a) A (b) P (c) C
 (d) R (e) Q

41. Who amongst the following is the immediate neighbour of the one who faces C, who is the immediate neighbor of one who likes Amit Shah?
 (a) The one who likes Rahul
 (b) The one who likes Sushma (c) B
 (d) The one who likes Mayawati (e) T
42. Which of the following leader does B like when all persons of the both rows are arranged in the alphabetical order starting from left side of row 2 to right side of row 1?
 (a) Mulayam (b) Mayawati (c) Rahul
 (d) Sonia (e) Nitish
43. Who amongst the following sits second to the left of P?
 (a) S (b) R (c) T
 (d) B (e) Q
44. In an extensive study of reading habits of magazine readers, it was found that an average of four to five people actually read each copy of the most popular weekly news magazine. On this basis, we estimate that the 12,000 copies of Poets and Poetry that are sold each month are actually read by 48,000 to 60,000 people.
The argument above makes which of the following assumptions?
 (a) Individual magazine readers generally enjoy more than one type of magazine.
 (b) Most of the readers of Poets and Poetry subscribe to magazine.
 (c) The ratio of readers to copies is the same for Poets and Poetry as for the weekly news magazine.
 (d) The number of readers of the weekly news magazine is similar to the number of readers of Poets and Poetry.
 (e) Most of the readers enjoy sharing copies of their favourite magazines with friends and family members.
45. New problems require new solutions. And new problems arise with new populations and new technologies. The solutions of these problems require new institutions as well as new political, economic, and social mechanisms. Yet, institutions and political and economic arrangements grow slowly and die slowly. Because old institutions die slowly, new institutions should be given every chance of success.
The above passage makes which of the following assumptions?
 (a) New institutions are needed because old institutions are inefficient.
 (b) New institutions are created in order to solve existing problems.
 (c) As old institutions are phased out, new ones take their place.
 (d) If there were no growth, old institutions would die more slowly.
 (e) Socio-technological change requires new forms of institutional arrangements

QUANTITATIVE APTITUDE

Directions (46-50): Read the following table charts and answer the following questions.

No. of people (in thousands) followed Prime Minister Narendra Modi and Barack Obama on different social networking sites in different years –

For Narendra Modi

	Facebook	Twitter	Instagram	LinkedIn	Tinder
2013	120	150	80	35	80
2014	280	450	120	80	180
2015	275	425	90	65	90
2016	320	375	180	50	50
2017	450	550	150	20	30

For Barack Obama

	Facebook	Twitter	Instagram	LinkedIn	Tinder
2013	980	1250	840	350	80
2014	800	1500	725	500	120
2015	850	1650	650	250	150
2016	910	900	325	900	120
2017	580	450	400	810	80

46. In year 2016 if there are 20% female out of total no. of followers who followed Narendra Modi on all these five networking sites and there are 60% male out of total no. of followers who followed Barack Obama for all these five networking sites then find the ratio of the no. of male followers who followed Narendra Modi in 2016 to the no. of female followers who followed Barack Obama in the same year on all these five social networking sites.
 (a) 590 : 430 (b) 390 : 631 (c) 631 : 390
 (d) 430 : 557 (e) 7 : 17
47. No. of people who followed Narendra Modi on Facebook in the year 2013 to 2016 are what percent less than the total no. of people who followed Barack Obama on twitter in the year 2014 to 2017 ?
 (a) $79\frac{8}{5}\%$ (b) $77\frac{7}{5}\%$ (c) $77\frac{8}{9}\%$
 (d) $79\frac{7}{5}\%$ (e) None of these
48. Average no. of people per year who followed Barack Obama in year 2013 to 2017 on Instagram and LinkedIn together are what percent of the total no. of people who followed Narendra Modi in year 2013 to 2015 on Facebook, twitter and Tinder together? (upto two decimal points)
 (a) 59% (b) 46% (c) 43%
 (d) 56% (e) None of these
49. Narendra Modi posted a selfie on Facebook and 70% people who followed Narendra Modi in year 2016 liked the selfie. Out of these people 95% people gave positive comments

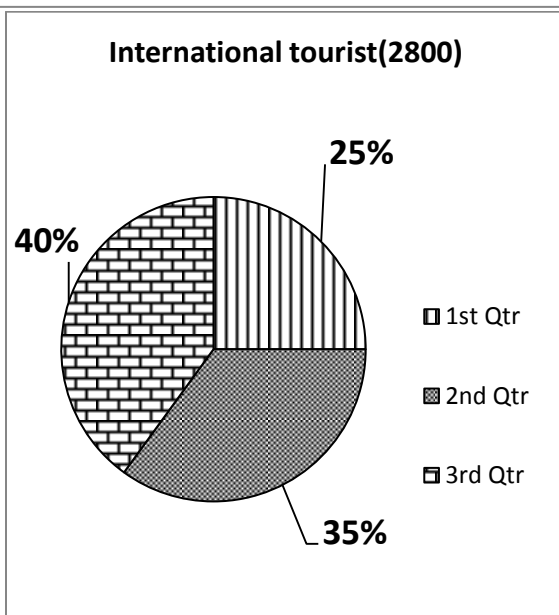
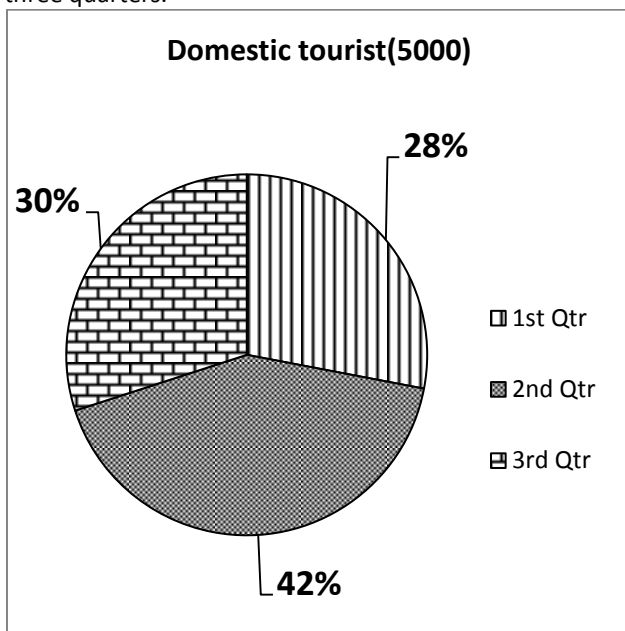
then find the no. of people out of these people who gave negative comments on the selfie?

- (a) 11340 (b) 12200 (c) 11800
(d) 12800 (e) 11200

50. Find the difference (in thousands) of no. of people who followed Barack Obama on Instagram in all of these five years and no. of people who followed Narendra Modi on LinkedIn and Tinder in all of these five years?

- (a) 2260 (b) 2420 (c) 2530
(d) 1470 (e) None of these

Directions(51-55)- In the given pie chart, in a state there are two types of tourist, Domestic and international tourist. Graph shows the percentage wise breakup of these tourists in a given year. There are 4 quarters in a year and graph shows the information for three quarters.



51. If we include the 4th quarter of the year, percentage of domestic tourist in 3rd quarter will become 20% of the total domestic tourist of the year. Then what is the number of domestic tourist in 4th quarter?

- (a) 3000 (b) 2550 (c) 2500
(d) 3500 (e) None of these

52. If the international tourists visited in 4th quarter is 500 more than the international tourist visited in 2nd quarter, then international tourists visited in 4th quarter is approximately what percent of total number of international tourists.

- (a) 25.4% (b) 34.57% (c) 45.7%
(d) 50% (e) 33.8%

53. Total no of domestic tourist who visited in 1st and 3rd quarter is approximately what percent of total no. of the international tourist in 2nd and 3rd quarter?

- (a) 138% (b) 149% (c) 159%
(d) 169% (e) 179%

54. Average number of domestic tourist from 1st and 3rd quarter is how much percent more than the number of international tourist from 2nd quarter? (Rounded off to two decimal points)

- (a) 47.96% (b) 45.94% (c) 47.81%
(d) 45.81% (e) 46.87%

55. If we include the 4th quarter of the year, percentage of international tourist in 1st quarter will become 20% of the total international tourist of the year. Then what is total number of international tourist in the year?

- (a) 3600 (b) 3750 (c) 4500
(d) 4000 (e) 3500

56. **Quantity I:** Percentage mark-up above cost price of an article so as to gain 33% after allowing the customer a discount of 5%.

Quantity II: Percentage of dancers under 25 years in a group of 20 singers and 40 dancer if 20% of the singers are less than 25 years old and 40% of the entire group is under 25 years.

- (a) Quantity I > Quantity II (b) Quantity I < Quantity II
(c) Quantity I ≥ Quantity II (d) Quantity I ≤ Quantity II
(e) Quantity I = Quantity II or No relation

57. **Quantity I:** Value of fifth number when Average of five numbers is 61. The average of 1st and 3rd number is 69 and average of second and fourth number is 69.

Quantity II: No. of boys in the class. The average age of all students of a class is 18 years. The average age of boys of the class is 20 years and that of the girls is 15 years. The no. of girls in the class is 20.

Note : Compare the magnitudes of quantities.

- (a) Quantity I > Quantity II (b) Quantity I < Quantity II
(c) Quantity I ≥ Quantity II (d) Quantity I ≤ Quantity II
(e) Quantity I = Quantity II or No relation

58. **Quantity I:** Share of B if Three partners A, B and C agree to divide the profits or losses in ratio 1.50 : 1.75 : 2.25. Profit earned at the end of year is 66,000.
Quantity II: 22000
 (a) Quantity I > Quantity II (b) Quantity I < Quantity II
 (c) Quantity I ≥ Quantity II (d) Quantity I ≤ Quantity II
 (e) Quantity I = Quantity II or No relation
59. **Quantity I:** Marked price of an article if A tradesman gives 4% discount on the marked price and 1 article free with every 15 articles bought and still gains 35%. C.P. of the article is Rs. 100.
Quantity II: Profit made on selling the pen at marked price. Even after reducing the marked price of a pen by Rs. 32, a shopkeeper makes a profit of 15%. The cost price of a pen is Rs. 320.
 (a) Quantity I > Quantity II (b) Quantity I < Quantity II
 (c) Quantity I ≥ Quantity II (d) Quantity I ≤ Quantity II
 (e) Quantity I = Quantity II or No relation
60. **Quantity I:** Days taken by A to finish the work alone. A, B and C working together complete a job in 18 days. A and B together work twice as much as C, A and C together work thrice as much as B.
Quantity II: Time taken by A and B together to finish the work. A is twice as fast as B and is therefore able to finish the work in 30 days less than B.
 (a) Quantity I > Quantity II (b) Quantity I < Quantity II
 (c) Quantity I ≥ Quantity II (d) Quantity I ≤ Quantity II
 (e) Quantity I = Quantity II or No relation
61. In a medical certificate, by mistake a candidate gave his height 25% more than the actual. In the interview panel, he clarified that his height was 5 ft 5 inches. What is the percentage correction made by the candidate from his stated height to his actual height?
 (a) 28.56% (b) 20% (c) 25%
 (d) 24% (e) None of these
62. When 5% is lost in grinding wheat, a country has to import 20 million bags to make up for the loss. But when only 2% is lost, it has to import 15 million bags. What is the quantity of wheat which grows in the country in million bags?
 (a) $133\frac{1}{3}$ (b) 150 (c) $106\frac{2}{3}$
 (d) $166\frac{2}{3}$ (e) None of these
63. There are twice the number of two wheelers as there are three wheelers and the number of 4 wheelers are equal to the number of two wheelers. The average number of wheels per vehicle is :
 (a) 3 (b) 4 (c) 5
 (d) 6 (e) None of these
64. Nine persons went to a hotel for taking their meals. Eight of them spent Rs 12 each over their meals and the ninth spent Rs 8 more than the average expenditure of all the nine. Total money spent by them was:
 (a) Rs 104 (b) Rs 105 (c) Rs 116
 (d) Rs 117 (e) None of these
65. From each of two given numbers, half the smaller number is subtracted. Of the resulting numbers, the larger one is three times as large as the smaller. What is the ratio of larger to smaller number?
 (a) 2 : 1 (b) 3 : 1 (c) 3 : 2
 (d) 4 : 3 (e) 4 : 1
66. In a T-Shirt stitching factory, the approved pieces were 95% of the total production on Friday and the rejected pieces were 10% of the total production on Saturday. The overall rejection rate for the two days combined works out to be 8.33%. what was the ratio of the production of Friday to the production of Saturday?
 (a) 1 : 2 (b) 2 : 1 (c) 1 : 3
 (d) 1 : 1.75 (e) None of these
67. Eight people enter into a partnership; 6 of them bring in Rs 30 each. The seventh person brings in Rs 10 more than the average of eight persons, and the eighth person brings in Rs 55. What is the total sum brought in?
 (a) Rs 40 (b) Rs 240 (c) Rs 280
 (d) Rs 250 (e) None of these
68. A farmer bought 749 sheep. He sold 700 of them for the price paid for the 749 sheep. The remaining 49 sheep were sold at the same price per head as the other 700. Based on the cost, the per cent gain on the entire transaction is :
 (a) 6.5 (b) 6.75 (c) 7.0
 (d) 7.5 (e) None of these
69. Instead of metre scale, a cloth merchant uses a 120 cm scale while buying, but uses an 80 cm scale while selling the same cloth. If he offers a discount of 20% on cash payment, what is his overall profit percentage?
 (a) 20% (b) 25% (c) 40%
 (d) 15% (e) None of these
70. A dealer buys fruits at Rs 100, 80 and 60 per kg. He mixes them in ratio 3 : 4 : 5 by weight and sells at a profit of 50%. At what price per kg does he sell the dry fruit?
 (a) Rs 80 (b) Rs 100 (c) Rs 95
 (d) Rs 110 (e) None of these
- Directions(71-75):** Each of the following questions consist of 3 statements A,B and C. You have to determine that which of the following statement/statements are necessary to answer the questions:
71. The cost of three pencils, four erasers and five paperweights is Rs 28. What is the cost of an eraser?
A. The cost of a paperweight is 25 paise less than that of the pencil and eraser together.
B. The cost of ten paperweights and 8 erasers is Rs 42.50.
C. The cost price of a pencil is 80% more than that of an eraser.
 (a) Any two of them
 (b) Either B alone or A and C together
 (c) Any of them

(d) All statements are required

(e) None of these

72. $x^2 : y^2 = ?$

A. The sum of these two quantities and their difference is 12 whereas the difference of the sum of these two quantities and their difference is 6.

B. y is 50% less than x.

C. $\sqrt{y} : \sqrt{x} = 1 : \sqrt{2}$

(a) Only A and B are sufficient

(b) Any two of A, B and C are sufficient

(c) Any one of A, B and C is sufficient

(d) Only B and C are sufficient

(e) All together are sufficient

73. What is the cost price of the book?

A. After allowing a discount of 18% on printed price shopkeeper charges Rs 516.60 for it.

B. If he had not allowed any discount, he would have a profit of 25%.

C. If he had allowed only 10% discount on printed price then he would have 12.5% profit.

(a) Any two of them (c) Either A and B or C

(b) Any one of them (d) All together is required

(e) A and either B or C

74. Between P and Q who will get the maximum interest?

A. P deposits a certain sum at 15% p.a. for $1\frac{1}{2}$ years, when the interest is compounded halfyearly.

B. Q deposits a certain sum of money at $7\frac{1}{2}$ % p.a. for 4 years, when the interest is compounded yearly.

C. The ratio of the sums of money of P and Q is 2 : 3.

(a) Only A and B together are sufficient

(b) Any two of the three statements are sufficient

(c) Either A and B together or, B and C together are sufficient

(d) All A, B and C together are necessary

(e) All even together are not sufficient

75. What is the speed of a train?

A. The train crosses a stationary pole in 6 seconds.

B. The train crosses another train which is going in the same direction at the speed of 36 km/hr in 12 seconds.

C. The train crosses an engine of length 40 m in 18 seconds.

(a) Only A and C together

(b) Any two of them

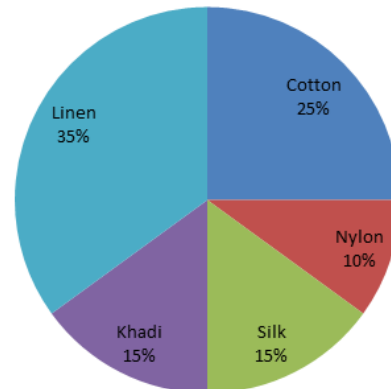
(c) B and either A or C together

(d) Only A and B together

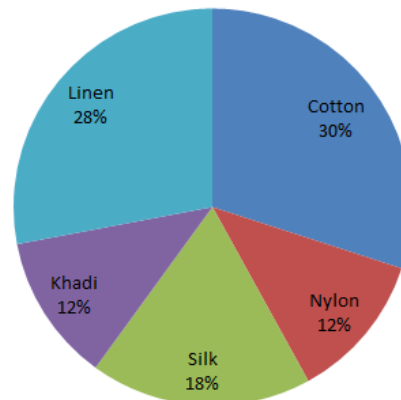
(e) All statements are required

Direction (76-80) : Answer the questions on the basis of the information given below:

The pie-charts show the percentage of shirts manufactured by two companies Mufti and Levi's in the year 2016



The number of shirts manufactured by Mufti = 48960



The number of shirts manufactured by Levi's = 45800

76. What is the average number of Cotton, Nylon and Silk shirts manufactured by both Mufti and Levi's together?

- (a) 28950 (b) 28980 (c) 25890
(d) 25850 (e) 25980

77. If Mufti exports 75% and 25% Linen shirts and Khadi shirts respectively and Levi's exports 55% and 25% of the Cotton shirts and Khadi shirts respectively, then what is the difference between the number of shirts exported by Mufti and that by Levi's?

- (a) 5757 (b) 5357 (c) 5467
(d) 5857 (e) 6457

78. The number of Nylon, Silk and Khadi shirts manufactured by Mufti is approximately what per cent more in comparison to the number of Linen and Khadi shirts manufactured by Levi's?

- (a) 17% (b) 15% (c) 7%
(d) 10% (e) 8%

79. If the cost of a Cotton shirt and a Silk shirt of Mufti are Rs. 700 and Rs. 1500 respectively, then what is the total cost price of both types of shirts together? (in Rs. thousand)

- (a) 18584 (b) 15884 (c) 19458
(d) 19584 (e) 18854

80. What is the ratio of the number of Cotton shirts of Mufti to the number of Cotton shirts of Levi's?

- (a) 204 : 209 (b) 204 : 229 (c) 205 : 229
(d) 209 : 204 (e) 204 : 205

ENGLISH LANGUAGE

Directions (81-85): Read the following passage carefully and certain words in the passage are printed in bold letters to help you locate them easily while answering some of these questions.

The idea that life starts simple and gets more complex over time persists even in scientific circles. Yet one of the biggest events in evolutionary history — the origin of the cells that make up every tissue in our bodies — may be a case of life getting less complicated, according to recent research.

These types of cells are called eukaryotes, and they're found in organisms from fungi to humans. They look like the souped-up versions of simpler cells such as bacteria and their distant cousins called archaea. Many researchers think eukaryotes are the **descendants** of either bacteria or archaea, or some combination of the two. But genetic and protein evidence do not support this view. Instead, the data suggest that eukaryote cells with all their bells and whistles are probably as ancient as bacteria and archaea, and may have even appeared first, with bacteria and archaea appearing later as stripped-down versions of eukaryotes, according to David Penny, a molecular biologist at Massey University in New Zealand. "We do think there is a tendency to look at evolution as progressive," he said. "We prefer to think of evolution as backwards, sideways, and occasionally forward."

The landscape inside a bacteria cell is pretty sparse, consisting mostly of free-floating genetic material. By contrast, the inside of a eukaryote cell is a **bustling** metropolis, crowded with a variety of protein factories, control rooms, transportation routes and a central bundle called the nucleus that contains the cell's genetic information. Eukaryote cells also have a unique set of genes and proteins. If the first eukaryotes were a fusion of ancient bacteria and archaea, as some scientists suspect, there should be clues in the eukaryote genome and proteome that point back toward these putative ancestors. Penny and colleagues say those clues simply aren't there. Instead, they say the fusion theory is "surprisingly uninformative" when it comes to explaining the special genetic and cellular features of eukaryotes. Some researchers think the fusion of simple bacterial cells may have created the compartments and tiny organ like structures that fill the insides of eukaryote cells. But Penny and colleagues say another phenomenon called "molecular crowding" could also explain the unique architecture of eukaryotes. When cells become **crammed** with proteins in a concentration so thick "it's almost like jelly," Penny says, it becomes hard for the proteins to move and work together. To avoid this problem, "working groups" of proteins sort themselves into separate **compartments**.

If eukaryotes didn't originate with bacteria and archaea, is it possible that the simple cell organisms are just stripped-down versions of eukaryotes? Although the idea seems contrary to our cherished notion that evolution makes organisms more complex, Penny and colleagues say it's possible. Bacteria and archaea may

be the "priced to move" models of eukaryotes, cells that opted out of the costly cellular gadgetry and large genomes of eukaryotes. Without these expensive extras, early bacteria could have turned their energies toward growing and reproducing faster using fewer resources — making it easier to advance into new ecological niches, Penny and colleagues say. Bacterial ancestors may have been forced into simpler lives by the appearance of the first cell to feed on other cells, an ancestral predatory eukaryote that Penny and colleagues have dubbed "Fred the Raptor." Fred's debut "would have had a major ecological impact on the evolution of gentler descendants of the Common Ancestor," the Science researchers suggest. If early bacteria did take the road toward greater simplicity, they would be in good company. Scientists have identified several cases of genome reduction in organisms as diverse as the malaria parasite and bakers' yeast, Penny says.

81. It can be inferred from the passage that eukaryotes are...
- single cell microorganisms.
 - multi cell microorganisms.
 - descendants of bacteria or archaea.
 - combination of bacteria and archaea.
- (a) A only (b) B and D (c) A and C
(d) None of these (e) B only
82. Which of the following most accurately states the main idea of the passage?
- Study of eukaryotes shows that the evolutionary processes might not have been completely in the direction of simple to complex creatures but could have been a process of less complicated ones from more complex forms as well.
 - From their study of eukaryotes, scientists have concluded that contrary to what is generally accepted even in the scientific world, evolution involved processes in all directions and not merely forward.
 - Scientists suggest that contrary to what is generally accepted even in the scientific world, cell origins involved a forward-and-backward process, rather than a merely progressive one.
 - Scientists have proved that evolution's progress beginning from a single cell that morphed into increasingly complicated creatures is erroneous, and that life in fact progressively got less complicated in the process of evolution.
 - None of these
83. If scientists had found shared proteins (a similarity) between eukaryotes and bacteria, they would have most likely concluded which of the following?

- (a) They were the result of a fusion between bacteria and archaea.
- (b) They were an example of cells morphing into increasingly complex structures.
- (c) Eukaryotes were the descendents of either bacteria or archaea.
- (d) They came from a common ancestor of both bacteria and eukaryotes.
- (e) All of these
84. Which of the following best explains "molecular crowding"?
- (a) As diffusion becomes restricted under high concentrations, molecules group themselves into separate compartments.
- (b) High concentrations of molecules reduce the volume of solvent available for other molecules in the solution.
- (c) High concentrations of molecules make it hard for them to work together and hence it becomes essential for molecules to function together in a large cell.
- (d) The radical change in the behaviour of molecules when they are in high concentrations.
- (e) molecular mass of an clustered molecules
85. If the "priced to move" concept is accepted in evolution, bacteria and archaea most strongly resemble which of the following?
- (a) A fully loaded car with sunroof, satellite radio and side airbags.
- (b) The basic model of a car with lower cost.
- (c) The revamped and upgraded version of an earlier car model.
- (d) The scaled down version of a premium model (of a car) which is cheaper but inferior.
- (e) All of these

Directions (86-90): Read the following passage carefully and answers the questions given below it. Certain words are given in **bold** to help you locate them while answering some of the questions.

Decisions that profoundly affect not only the present but also succeeding generations, should not be taken in a rush, or through one-time referendums. This is basic political common sense. But in a voter turnout of 72.2 per cent, 51.9 per cent decided that Britain should exit the European Union (EU). The consequences of the Brexit vote are painfully clear. It has triggered off serious after-effects in the field of finance and economics, catapulted demands for Scottish independence, and adversely impacted the issue of how people can learn to live with people of other persuasions in a degree of civility. The EU might not be a perfect model for this learning, but the experiment raised hopes that we may see an end to narrow and chauvinistic nationalism. Given an appropriate political context, people may well turn outwards to other cultures and other places. This 'turning outwards' is essential for collective life, because the lessons the latter part of the twentieth century

taught us are bitter. The nation state, which colonised countries fought so passionately for, has proved one of history's most costly mistakes. There is nothing noble about nationalist prejudice and **bigotry**. Today we are back to square one. Newspapers have reported heightened racial abuse of 'immigrants' in the aftermath of the referendum. The targets of individual and collective ire are probably British citizens. Their future continues to be uncertain.

This was perhaps over determined because Brexit campaigners fought the battle on the plank of anti-migrants — only if immigrants are prevented from entering the British Isles, people's lives would be better. This appealed to supporters of Brexit, many of whom are rural-based, poor, and less educated citizens of England. Hit hard by austerity measures of the Conservative government, they lead lives embedded in anxiety. Riding high on precisely this insecurity, 51.9 per cent of British voters opted to close borders and minds, as against 48.1 per cent who opposed the move. Notably a majority vote for remaining in the EU was concentrated in Scotland, Northern Ireland and London. Yet Delhi's Chief Minister, ever ready to rush in where angels fear to tread, announced that his government would hold a referendum on statehood for the proto-state. Certainly referral of **contentious** matters to 'the people', and the majority principle puts into practice the basic presupposition of democracy: popular sovereignty. However, democracy cannot be reduced to majority rule. This belief is both crude and frightening. The majority principle is workable, but it is morally unjustified because it violates the right of minorities to secure 'voice' in decision-making. Liberals from J.S. Mill, to Alexis de Tocqueville, to Thomas Jefferson and John Adams have feared the 'brute power' of majorities, created often through clever demagoguery that plays skillfully on insecurities and excavates hidden fears. That is why democratic constitutionalism institutionalises checks and balances to control excesses of majorities. For example, periodic elections ensure that today's minority can be transformed into a majority five years hence, provided the process is fair and free. Should matters of great import be decided by one-time referendums, simple majorities, and regionally concentrated votes, with no follow-up?

A system of checks and balances has to be devised for referendums/plebiscites. The first suggestion is that three referendums should be held over a period of six years to vote on the issue. The gap between enables the cooling down of political passions, provides opportunities for reasoned and informed debate, rational examination of the complexities of the issue at hand, and rethinking. History validates this course of action. The belief that people revise their choices in different circumstances has prompted an online petition to the British Parliament. The petition demands a second referendum on Brexit. More than three million British citizens have signed in. Under the onslaught of collective public ire, the website crashed. In the run-up to the referendum, leading Brexiteer Nigel Farage had stated that if Remain won by a 52 per cent to 48 per cent margin, it would

constitute a compelling reason for another vote. Why should the reverse not be equally valid now? But even if a second referendum or even a third is held, the basic principles and procedures of the exercise have to be clearly formulated. It has been suggested that a decision is binding only in case of a 75 per cent turnout. This is simply not enough. Decisions of such magnitude have to be taken in an atmosphere free of hyperbole, the whipping up of passions against migrants “who take away jobs”, the idea that the government is socially responsible only for citizens but not for people whose labour contributes to the building of the economic infrastructure, and rhetoric that breeds insularity. Unfortunately, politics today has become like instant coffee or noodles; a matter of reaching out to people via the social media instantaneously and unreflectively. Social media, which hosts completely irresponsible, vicious messages, has replaced face-to-face interaction and mobilisation, and defines the democratic deficit of our age. The second suggestion, therefore, is that decisions are binding only if a two-third or a three-fourth majority approves of a course of action, as in the case of constitutional amendments.

Three, the outcomes of referendums need not be binding; they merely place an obligation on a democratically elected government to proceed in a certain way. The reference for this suggestion is the ruling of the Supreme Court of Canada. In the 1990s, Prime Minister Jean Chrétien filed a reference in the court on the issue of Quebecois separatism. Though the Supreme Court ruled that unilateral secession has no basis in law, it also held that clear popular support for secession can engender an obligation on the parent state to negotiate with the leaders of the movement. Notably the British Prime Minister has not stated specifically that the result of the referendum is legally binding. Therefore, in theory, it can be overruled by the British government. One senior labour MP has already recommended that the referendum be considered an advisory, rather than binding on Parliament. Finally, the option to secede from a country or a regional organisation on the ground that people will lead better lives must be the ultimate delusion in political dream-making. A state of one’s own does not necessarily deepen democracy. Only social democracy can deepen democracy. But Britain has rolled back the welfare state, and a slender majority has offered people racism and chauvinism as consolation. The country has moved from cosmopolitanism to muggy nationalist chauvinism. The Brexit vote has not only closed borders, it threatens to close British minds.

86. What has been the fallout of Brexit so far?
- There has been a democratic deficit in Britain since the Brexit.
 - Petitions have been signed for a second referendum based on three-fourth of the majority.
 - British citizens have been abused.
 - The narrow and chauvinistic nationalism is about to end.

- (e) Checks and balances are institutionalized to control the excesses of the majorities.
87. What do you mean by ‘a system of check and balances’?
- A system where government exercises absolute authority.
 - A system where there is no room for minorities as their voices are violated.
 - A system where power is concentrated in the hands of particular individuals and organizations.
 - Counterbalancing influences by which an organization or system is regulated.
 - Imperial system.
88. What is the ultimate delusion which is being talked about in this passage?
- Democracy is strengthened when people lead a better life.
 - The voice of the minorities can be secured in decision making in a democratic system.
 - Social democracy can deepen democracy.
 - The idea that government is socially responsible only for its citizens.
 - Hope that Brexit may see an end to narrow and chauvinistic nationalism.
89. What is the main threat Brexit vote poses?
- Independence of Scotland.
 - The rise of Xenophobia.
 - The end to parochial and bigoted attitude of British people.
 - Violation of the right of minorities to secure ‘voice’ in decision-making.
 - Democratic deficit.
90. What is the central theme of the given passage?
- Need for democratic constitutionalism to institutionalize checks and balances.
 - The consequences of Brexit on the narrow and chauvinistic nationalism in Britain.
 - Gaining insight into democratic deficit of the present age.
 - Ultimate delusion of the political dream making.
 - The frightening aspect of the popular presupposition of the democracy: sovereignty.

Directions (91-95): In each of the following questions a short passage is given with one of the lines in the passage missing and represented by a blank. Select the best out of the four answer choices given, to make the passage complete and coherent. If none follows, choose (e) as your

91. Many of us live one-eyed lives. We rely largely on the eye of the mind to form our images of reality. It is a mechanical world based on fact and reason. (.....). So today more and more of us are opening the other eye, the eye of the heart, looking for realities to which the mind’s eye is blind. This is a world warmed and transformed by the power of love, a vision of community beyond the mind’s capacity to

- see. Either eye alone is not enough. We need “Whole sight”, a vision of world in which mind and heart unite.
- (a) It has led to unprecedented scientific growth and material well-being
- (b) In the nuclear age, our mind-made world has been found flawed and dangerous, even lethal
- (c) The question is irrelevant whether or not there can be seen and reasoned
- (d) We have built our lives based on it because it seemed predictable and safe
- (e) None of the above
92. I see a negative synergy in many organizations as people struggle in terms to deal with differences and maintain positive, productive relationships. (.....). They wonder how to turn those relationships around to get more creative, innovative, thinking and positive results. The key is to stop cloning other and to start valuing differences.
- (a) It seems that developing positive synergy while working in a team has become virtually impossible.
- (b) This negativity nullifies anything good if at all achieved.
- (c) Often the negative dynamics in their relationships kill creative potential.
- (d) Today organizations are working hell bent upon how to tide over this rising stream of negativity.
- (e) None of the above
93. Though history represents ‘the past’, it is but the foundation for the edifice of the present as well as future. It will be an anachronism to review the past historical occurrences solely in the light of the present day conditions and developments. (.....). As history is quintessence of human experiences during the given time and space, no two historical occurrences also can be very similar.
- (a) History being repetitive can safely unravel the denouement.
- (b) It would be wrong to justify present actions seeking shelter under history.
- (c) Some scholar, however, regard present and future as mere reincarnation of the past.
- (d) But each history being the product of a particular culture is unique.
- (e) None of the above
94. After all, if I’m not capable of listening to myself, which other voice will I ever be able to regard? Some people might think praying to oneself is nothing but perverted blasphemy. (.....). It’s the highest form of recognizing the divine.
- (a) It may be true to a certain degree.
- (b) Can prayer, to whomsoever it is, be a disregard?
- (c) Not at all. (d) But is it so?
- (e) None of the above
95. We are all His saplings and we are all bound by His love. So there is no question of taking undue umbrage. In the world according to the Sufis, the essence of being/truth/God is devoid of every form and quality. This is also what the Indian sacred tradition says: Brahman or ultimate reality is without attributes. (.....). This is often understood to imply that every phenomenon is an aspect of Truth and at the same time attribution of existence to it is false.
- (a) He is too big and divergent to fit in a particular adjective.
- (b) He creates all.
- (c) Any attribution, either spiritual or material, to Him is too simplistic explanation of the phenomenon.
- (d) Yet it is inseparable from every form and phenomenon either material or spiritual.
- (e) None of the above
- Directions (96-100):** In each of the following questions a short passage is given with last line in the passage missing and represented by a blank. Select the best out of the four answer choices given, to make the passage complete and coherent. If none follows, choose (e) as your
96. Two headlines today capture the forces that are pushing and pulling on the U.S. housing market: First, the Commerce Department reported Friday that housing starts rose to an 896,000 annual rate in July, way up from the 836,000 recorded in June. Builders are starting to build! But at the same time, in the bond market, interest rates are rising; the 10 year U.S. treasury yield rose to 2.84 percent Friday, the highest in two years. _____
- (a) Housing starts are up a lot from the lows of 2009.
- (b) There is still a lot of room for the construction industry to ramp up production.
- (c) That in turn is putting upward pressure on mortgage borrowing costs.
- (d) Here’s why those are both such powerful forces, and it’s hard to know for sure which will prevail.
- (e) None of these.
97. When you get angry, you can feel the anger rising in your body. It’s important to recognise the feeling, to remember what happened the last time it occurred. Perhaps you blew up, refused to forgive, and the situation got worse. If you see something has happened, calm down and think about it. But don’t over-obsess. If you have harsh standards about what is right and wrong, you can have a tendency to go over and over an error in judgment or a perceived slight. _____
- (a) The ability to forgive needs a certain amount of maturity.
- (b) While true forgiveness is hard, pretending to forgive is easy.
- (c) You should learn to modify your temper.
- (d) You really add to the problem by too much rumination.
- (e) None of these.
98. Shopping, in other words, is not just buying things. It is something we are doing with unprecedented energy and

- devotion. Consumerism is the new religion of modern India and malls have become its cathedrals. The religious parallel is precise — these malls have naves, aisles, arcades and even domes. The transmutation the society is witnessing presents man as the evolving shopping freak, shouldering the fairer sex with utmost panache. _____
- (a) They can feel the merchandise calling out to them, entreating them to choose the right path and make the right choices.
- (b) Consumerism has affected everyone from kids to the elderly.
- (c) Hooked on the phenomenon, it gives them a sense of power, pampering their mountain high egos.
- (d) These commercial havens serve as battlegrounds for the international brands.
- (e) None of these.
99. The American Psychiatric Association describes personality as “the unique psychological qualities of an individual that influence a variety of characteristic behaviour patterns, both overt and covert, across different situations and over time”. A more home-grown definition of personality would be something like, “It’s who I think I am, and who others think I am”. As may be evident, the term personality really refers to a set of consistently extant thoughts, beliefs and perceptions in our minds, that together result in a relatively stable pattern of behaviour that distinguishes us from the next person. _____
- (a) Going by this definition, the term ‘personality’ is used, and often abused, in several different ways.
- (b) What is implicit in this definition is that one’s personality traits don’t change from one day to the next.
- (c) This means our “core traits” remain imperviously obdurate to our life experiences.
- (d) This means we are unlikely to change over time.
- (e) None of these.
100. In international law, States exercise sovereignty over their territories. There is no requirement that the territory must be contiguous or geographically proximate. This possibility of territories lacking geographical contiguity forming parts of one state sometimes results in some parts being surrounded by the territory of another state. Such territories are termed enclaves. The situation can be further complicated by an enclave within an enclave (counter-enclave) or even an enclave within a counter-enclave (counter-counter-enclave). Any state has a near-absolute right to restrict or regulate access to and transportation in its territory. This results in practical difficulties. _____
- (a) Being surrounded by the territory of another state, the residents of an enclave cannot travel to their ‘home state’ without crossing international borders and obtaining the necessary permission for the same.
- (b) Governmental agencies of the home state cannot access the enclave, without the permission of the state that surrounds the enclave.
- (c) The practical and legal difficulties in accessing enclaves can render sovereignty over them illusory.
- (d) The home state has practically no sovereignty over such enclaves.
- (e) None of these.
- Direction (101-105):** Five statements are given below, labeled (a), (b), (c), (d) and (e). Among these, four statements are in logical order and form a coherent paragraph. From the given options, choose the option that does not fit into the theme of the paragraph.
101. (a) As a psychologist Clay Routledge mentions in his book, *Nostalgia: A Psychological Resource*, we look at the past nostalgically to “right the ship”.
- (b) Extant research in psychology shows that when people feel anxious, overwhelmed, or challenged in life, they use happy memories to anchor themselves.
- (c) Not surprisingly, research shows that feeling nostalgic inspires, galvanizes and motivates us to live life to its fullest.
- (d) A deeply personal feeling, this sentimental longing for the past, can strengthen the bond with the present and make one feel more optimistic about the future.
- (e) In a thought-provoking twist, participants who were made to feel nostalgic prior to this “accident” picked up a lot more pencils than those who did not feel nostalgic.
102. (a) India is the only country in the world that has such a three-tiered framework of prerequisites, each of which sets a fairly high benchmark for urban qualification.
- (b) Consequently, many scholars have argued that India is actually a lot more urban than official data suggests—contrary to the oft-repeated criticism that the country is not urbanizing quickly enough.
- (c) This narrative of quiet and often unacknowledged “home-grown” development is only one side of the story.
- (d) For a settlement to be declared a census town, it has to satisfy three criteria.
- (e) Its population has to be 5,000 or more; its population density has to be of 400 persons per sq. km or more; and at least 75% of its male workforce has to be employed in the non-farm sector.
103. (a) Goods and services tax introduction and the technology aspects associated with it have to be better managed than the currency swap exercise.
- (b) The Prime Minister has a few decisions to make in the new year.
- (c) A drastic overhaul of direct taxes—rates, thresholds and exemptions—is overdue.
- (d) With the exit of Raghuram Rajan, the issue of non-performing assets in the banking system has also been quietly buried.

- (e) If he is determined to disrupt and if incrementalism is deemed inadequate for India's development tasks—he has to disrupt the banking system and the tax system.
104. (a) That India's economic momentum has slowed down is now beyond doubt.
 (b) While GDP growth is now pegged at 7.1 per cent, compared with a 7.6 per cent pace in 2015-16, GVA is forecast to expand at 7 per cent this year, easing from the 7.2 per cent posted 12 months earlier.
 (c) Advance GDP estimates and gross value added (GVA) for the current fiscal year from the Central Statistics Office clearly reveal the extent of the slowdown.
 (d) As for the economic component of formalizing the informal part of the economy (it is also a part of the black economy and not just corrupt transactions), there is no global precedence to achieve it in this manner.
 (e) And as the Chief Statistician emphasised, these projections were based solely on data from the first seven months through October and do not factor in the impact from the withdrawal of high-value banknotes and the consequent cash crunch.
105. (a) In India, a fake story said there was a GPS tracking chip embedded in the new Rs.2,000 note.
 (b) This has set alarm bells ringing in Europe where several countries are about to go to the polls.
 (c) The abundance of fake stories during the U.S. presidential elections has raised concerns about their impact on election results.
 (d) Germany is considering imposing a €500,000 fine on Facebook if it shares fake news, and an Italian regulator has asked European countries to set up an agency to combat fake news.
 (e) A recent study from the Pew Research Center found that approximately two-thirds of Americans felt 'fake news' had caused a "great deal of confusion" over current affairs.
- Direction (106-110):** Select the phrase/connector from the given three options which can be used to form a single sentence from the two sentences given below, implying the same meaning as expressed in the statement sentences.
106. (1) I have been a journalist for well over three decades.
 (2) I now realise that the foundation for this passion is the precious human attribute: hope.
 (i) Over three decades have...
 (ii) After being a journalist for...
 (iii) Realising the foundation...
 (a) Only (i) is correct. (b) Only (ii) is correct.
 (c) Only (iii) is correct. (d) All are correct.
 (e) None is correct.
107. (1) Comet C/2016 U1 NEOWISE will be in the southeastern sky shortly before dawn.
 (2) It was seen from the northern hemisphere during the first week of 2017.
 (i) As seen from the northern...
 (ii) During the first week of 2017...
 (iii) While the northern hemisphere during...
 (a) Only (i) is correct. (b) Only (ii) is correct
 (c) Both (i) and (iii) are correct
 (d) Both (ii) and (iii) are correct.
 (e) Both (i) and (ii) are correct.
108. (1) Prime Minister Narendra Modi launched mobile payment app BHIM (Bharat Interface for Money).
 (2) He announced at a DigiDhan programme in New Delhi on Friday.
 (i) BHIM, a mobile payment app, was launched...
 (ii) By launching BHIM Prime Minister...
 (iii) At a DigiDhan programme in...
 (a) Only (i) is correct (b) Only (iii) is correct
 (c) Both (i) and (ii) are correct (d) Both (i) and (iii) are correct
 (e) All are correct
109. (1) Subsidised LPG will now cost Rs.434.71 a bottle against Rs. 432.71 previously.
 (2) There is an increase of Rs.2 per 14.2-kilogram cylinder.
 (i) Though the subsidized LPG will now...
 (ii) Previously 14.2-kilogram cylinder...
 (iii) With an increase of Rs.2 per...
 (a) Only (i) is correct (b) Only (ii) is correct
 (c) Only (iii) is correct (d) Both (i) and (ii) are correct
 (e) None is correct.
110. (1) The Prime Minister flagged the inconvenience posed by Kisan credit cards which require farmers to go to the bank to withdraw cash against their credit limit.
 (2) He promised to convert three crore Kisan credit cards to Rupay cards in the next three months.
 (i) While the inconvenience posed by...
 (ii) Promising to convert three crore Kishan ...
 (iii) The Prime Minister promised to...
 (a) Only (iii) is correct (b) Only (ii) is correct
 (c) Only (i) is correct
 (d) Both (ii) and (iii) are correct (e) All are correct
- Directions (111-115):** In each of the following questions four options are given of which two are most nearly the same or opposite in meaning. Find the two words which are most nearly the same or opposite in meaning.
111. (A) Remonstrate (B) odium
 (C) concede (D) expostulate
 (a) B-D (b) A-B (c) B-C
 (d) A-D (e) C-D
112. (A) Myriad (B) rigid
 (C) impulse (D) measurable
 (a) B-D (b) A-B (c) B-C
 (d) A-C (e) A-D
113. (A) Glut (B) insufficiency
 (C) periodical (D) multitude
 (a) B-D (b) A-B (c) B-C
 (d) A-C (e) A-D

114. (A) Rhetoric (B) eloquence
 (C) entrenched (D) proclivity
 (a) B-D (b) A-B (c) B-C
 (d) A-C (e) A-D
115. (A) Usurp (B) surfeit
 (C) propensity (D) expropriate
 (a) B-D (b) A-B (c) B-C
 (d) A-C (e) A-D

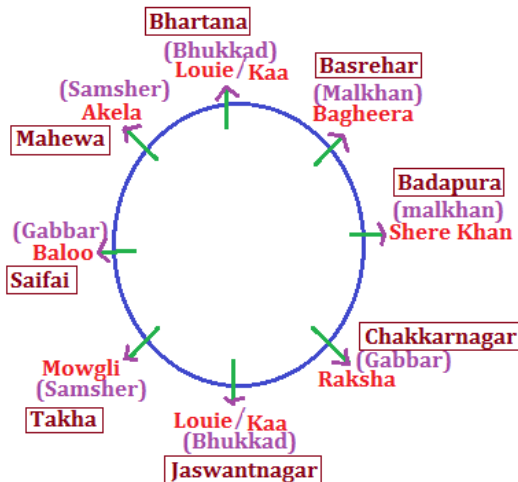
Solutions:

Direction (1-5):

JOCKEY	HORSE	RACE TYPE	GAMBLER	POSITION
M	Vicky	Flat	Rahul	2 nd
N	Tommy	Hunt	Ravi	2 nd
O	Tuffy	Harness	Raman	1 st
P	Tiger	Endurance	Ritesh	1 st
Q	Rockey	Harness	Rohan	3 rd
R	Jacky	Hunt	Rakesh	1 st

- (d)
- (c)
- (c)
- (b)
- (c)
- (d); From the statement, it is nothing mentioned anywhere that there were marches protesting her government. So, I is not implicit. It is clear that the charges of her impeachment were a result of illegal bookkeeping manoeuvres to hide a growing deficit of the country. So, II and III are not implicit.

Direction (7-11):



- (b)
- (d)
- (c)
- (b)
- (d)

12. (c); It is not practically feasible to provide free health facility to all poor and middle classes. So, II is not an effective course of action. Whereas raising expenditure in conjunction with the states and providing more allocations on public health system will be an effective course of action.

Direction (13-17):

- (d); Receptionist refuses to take money from the patient because clearly we can see in the DFD diagram, for admission of patient, there is demand of Rs, 10,000 from reception.
- (d); If patient submit 7,000 rupees, then treatment is refused so option (a) does not follow. And in DFD nowhere mention about the details of treatment facility. So we cannot consider option (c). But option (b) and (e) shows patient is discharged from the hospital.
- (c); After analyzing DFD diagram, all options show that patient can collect his/her report from the hospital. After report generation if the patient report is positive, doctor will suggest for operation.
- (d); Option (d) is logically missing in DFD diagram because doctor should declare name of diseases before going for their treatment.
- (d); If patient do not submit required money as demanded by the hospital, then his/her treatment will be refused by the receptionist, so patient will not be admitted in hospital.
- (d) Only I and III can be inferred from above sentences. Tone of above sentence and statement of Indian PM clearly indicates that India had suffered a pain of terrorist attack. I and II may be an assumption or course of action but it cannot be inferred that indicated country will take stern action. From the statement of PM that "India has a policy of zero tolerance" it can clearly inferred that India is too much concern and cannot tolerate terrorism.
- (d) Only II and III substantiate barbarism of Boko Haram. Ist statement is only talking about number of members in the group. It is not talking about any violence or violent activity. Statement II and III shows the cruelty of Boko Haram in which fact of killing and kidnapping of person is mentioned.

Direction (20-24):

PERSON	CABIN	GAME	YEAR OF RELEASE
Ryan	1	Reason	1997
Rachel	6	Reminisce	1998
Rihana	3/5	Redbook	2001
Robert	2	Reader's digest	2002

Russell	3/5	Rolling Stone	2008
Robin	4	Real Simple	2009

20. (c)
 21. (c)
 22. (d)
 23. (d)
 24. (e)
 25. (c); Only II statement negates the fact of empowerment of women. I and III statement support the fact of empowerment. These both statement praises the Indian women athlete. But despite of a sensational performance of Sakshi and Sindhu, II statement is talking of only negative part of game.
 26. (e); All three statements can be assumed as there may be possibility that lack of practice is reason behind failure of Indian women athletes. And obviously after a wonderful performance by two women athletes, Indian govt. will try to give full support to Indian athletes to win more medal in upcoming Olympics for India. As it is mentioned, generally athletes belongs from low income family and there may be possibility that Indian gymnast were not getting all facilities or support from Indian Govt.

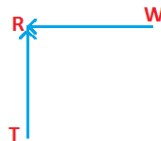
Direction (27-31):

Friends	Belongs To	Going to	Studying in	Berth Number
Mohan	Mathura/ Meerut	Manali	Mysore/ Marigaon	4
Mohit	Mathura/ Meerut	Munnar	Mysore/ Marigaon	1
Mukul	Mandi	Mount- Abu	Mangalore	3
Mayank	Mhow	Mussoorie	Mumbai	2

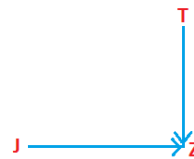
27. (a)
 28. (e)
 29. (d)
 30. (d)
 31. (b)
 32. (c); The passage claims that the critical difference between the Maths and science scores of Japanese and American children is the discipline of the Japanese educational system. (c) directly contradicts this claim. It says, in essence, that this cannot be the proper casual explanation because American students, in highly flexible environments, actually outscore the Japanese students in their rigid environments.

Direction (33-37):

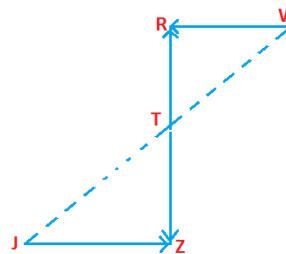
33. (b); All I, II and III are required to answer the question.
 P is the mother of B, D and M.
 B and D are daughters.
 34. (d); From I, $T > Q > P$
 From II, $_ > _ > _ > R > _ > _$
 From III, $_ > _ > _ > S > U$
 From all the three statements $T > Q > P > R > S > U$
 Hence, T is the tallest among them.
 35. (e); From I,



From II,

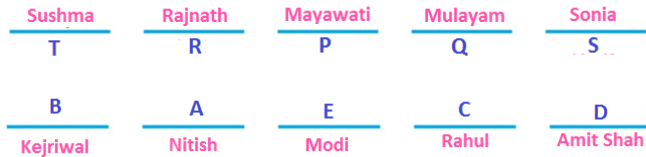


From I and II, J is to the South-West of W.



36. (e); From all the three statements Mayank's mother can visit his home on Tuesday, Wednesday, Friday, Saturday or Sunday. So (e) is the correct option.
 37. (e); From I and II- there are only two ways of expressing the number 158 as the sum of a multiple of 7 and a multiple of 11.
 $147 + 11 = 158$
 $70 + 88 = 158$
 Since there are more females than males, the number of males must be 70 while the number of females 88.
 38. (d); Ordinarily, one would expect higher prices to result in less demand for a product. yet, according to the passage, in the face of higher prices for imported electronics, demand has not weakened. (d) gives correct explanation. (b) can be the second best. If (b) is true, then we would expect some consumers to prefer imports over domestically produced items; but the argument doesn't just claim that there has been weakening in the demand for imports than might be expected, but no weakening at all.

Direction (39-43):



39. (e)
 40. (d)
 41. (d)
 42. (a)
 43. (a)
 44. (c); This argument, in fact, a kind of generalization. It assumes that what is true of one magazine is true of other magazines as well. (c) points out that the argument is implicitly committed to this idea.
 (e); New technologies and populations represent problems related to socio-technological changes and require new mechanisms. The other alternatives are incorrect assumptions. so option (e) is the correct assumption.
46. (b); Required ratio = $(\frac{80}{100} \times 975) : (\frac{40}{100} \times 3155)$
 = 780 : 1262
 = 390 : 631
47. (c); Required % = $\frac{4500-995}{4500} \times 100$
 = 77 $\frac{8}{9}$ %
48. (d); Required % = $\frac{1150}{2050} \times 100$
 = 56.09% \approx 56%
49. (e); No. of people who gave negative comments
 = $\frac{5}{100} \times \frac{70}{100} \times 320 \times 1000$
 = 11200
50. (a); Required difference = 2940 – 680
 = 2260 thousands
51. (c); Let total domestic tourist in the year = x
 \therefore Domestic tourist in 3rd quarter = $\frac{20x}{100}$
 According to first Quarter = $\frac{20x}{100} = \frac{30}{100} \times 5000$
 $\frac{x}{5} = 1500$
 \therefore No. of domestic tourist in 4th Quarter
 = 7500 – 5000
 = 2500
52. (b); International tourist visited in 4th quarter
 = $500 + \frac{35}{100} \times 2800$
 = 500 + 980
 = 1480
 Total no. of International tourist = 2800 + 1480

= 4280
 \therefore Required % = $\frac{1480}{4280} \times 100$
 = 34.57%

53. (a); Required % = $\frac{\frac{58}{100} \times 5000}{\frac{75}{100} \times 2800} \times 100$
 = $\frac{58}{75} \times \frac{50}{28} \times 100$
 \approx 138%
54. (a); Average no. of domestic tourist from 1st and 3rd quarter
 = $\frac{58}{200} \times 500$
 = 1450
 Average no. of International tourist from 2nd quarter
 = $\frac{35}{100} \times 2800$
 Required % = $\frac{1450-980}{980} \times 100$
 = 47.96%
55. (e); Let total no. of International tourist = x
 \therefore International tourist in 1st quarter = $\frac{20}{100} x$
 \therefore According to quarter, $\frac{20x}{100} = \frac{25}{100} \times 2800 \Rightarrow x = 3500$
56. (a); Quantity I:-
 $\frac{95}{100} MP = \frac{133}{100} CP$
 $\Rightarrow MP = 1.4 CP$
 Percentage mark-up = 40%
 Quantity II:-
 Total no. of people under 25 years of age = $\frac{40}{100} \times 60 = 24$
 No. of singers under 25 years of age = $\frac{20}{100} \times 20 = 4$
 No. of dancers under 25 years of age = 24 – 4 = 20
 Percentage of dancers under 25 years of age = $\frac{(40-20)}{60} \times 100 = 33 \frac{1}{3}$ %
 Quantity II < Quantity I
57. (b); Quantity I:-
 Fifth number = $5 \times 61 - 2 \times 69 - 2 \times 69$
 = 305 – 276
 = 29
 Quantity II:-

Boys 20	Girls 15
18	
3 (30)	2 (20)

 No. of boys = $\frac{3}{2} \times 20 = 30$
 Quantity II > Quantity I
58. (b); Quantity I:-

Ratio of profits or losses is = 1.50 : 1.75 : 2 : 25
= 6 : 7 : 9

Share of B = $\frac{7}{22} \times 66000 = 21000$

Quantity II:-
22000

Quantity II > Quantity I

59. (a); Quantity I:-

$$MP \times \frac{96}{100} \times \frac{15}{16} = \frac{135}{100} CP$$

$$\Rightarrow MP = \frac{135}{90} CP = 1.5 CP$$

$$\Rightarrow MP = 1.5 \times 100 = 150$$

Quantity II:-

$$MP - 32 = \frac{115}{100} \times 320 = 368$$

$$\Rightarrow MP = 400$$

Profit made on selling at M.P. = 400 - 320 = 80

Quantity I > Quantity II

60. (a); Quantity I:-

$$\frac{1}{A} + \frac{1}{B} + \frac{1}{C} = \frac{1}{18} \quad \dots (i)$$

$$\frac{1}{A} + \frac{1}{B} = \frac{2}{C} \quad \dots (ii)$$

$$\frac{1}{A} + \frac{1}{C} = \frac{3}{B} \quad \dots (iii)$$

Solving (i), (ii) and (iii)

$$A = 43.2$$

Quantity II:-

Let B takes '2t' days to finish the work alone
then, A will take 't' days to the work alone
= 2t - t = 30

$$\text{Time taken by A and B together} = \frac{30 \times 60}{30 + 60} = \frac{1800}{90} = 20 \text{ days}$$

Quantity I > Quantity II

61. (b); Candidate's actual height = 5 ft 5 inches

$$= 5 \times 12 + 5 = 65 \text{ inches}$$

$$\text{Height stated by mistake} = \frac{5}{4} \times 65 = \frac{325}{4} \text{ inches}$$

$$\text{Percentage correction made} = \frac{\frac{325}{4} - 65}{\frac{325}{4}} \times 100$$

$$= \frac{(325 - 260)}{325} \times 100$$

$$= \frac{65}{325} \times 100$$

$$= 20\%$$

62. (d); Let 'x' million bags be the quantity of wheat that grows in the country, then

$$95\% \text{ of } x + 20 = 98\% \text{ of } x + 15$$

$$\Rightarrow 3\% \text{ of } x = 5$$

$$\Rightarrow x = \frac{500}{3} = 166 \frac{2}{3}$$

63. (a); Let, No. of three wheelers be x, no. of wheels = 3x

Then, no. of two wheelers = 2x, no. of wheels = 2 × 2x = 4x

and no. of four wheelers = 2x, no. of wheels = 4 × 2x = 8x

Total vehicles = 5x, Total wheels = 15x

$$\text{Average no. of wheels} = \frac{15x}{5x} = 3$$

64. (d); Let average expenditure of all the nine be x.

$$12 \times 8 + (x + 8) = 9 \times x$$

$$\Rightarrow x = 13$$

Total money spent = 9 × 13 = 117

65. (a); Let, smaller no. be x and larger one be y

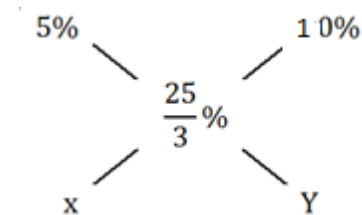
$$3 \left(x - \frac{x}{2} \right) = y - \frac{x}{2}$$

$$\Rightarrow \frac{3x}{2} + \frac{x}{2} = \frac{y}{2}$$

$$\Rightarrow \frac{x}{y} = \frac{1}{2}$$

66. (a); Rejected pieces on Friday = 5% of total production on Friday.

Using alligation,



$$\frac{x}{y} = \frac{10 - \frac{25}{3}}{\frac{25}{3} - 5} = \frac{5}{10} = \frac{1}{2}$$

$$\Rightarrow x : y = 1 : 2$$

67. (c); Let, the average of eight persons be x,

Then

$$6 \times 30 + 55 + (x + 10) = 8x$$

$$\Rightarrow 7x = 245$$

$$\Rightarrow x = 35$$

Total sum = 8 × 35 = 280

68. (c); Let he paid Rs. 1000 for 749 sheeps

$$\text{Then, S.P. of 1 sheep} = \frac{1000}{700} = \frac{10}{7}$$

$$\text{Total S.P.} = \frac{10}{7} \times 749 = 1070$$

Hence, 7% gain on entire transaction

69. (a); Profit% while buying = $\frac{120 - 100}{100} \times 100 = 20\%$

$$\text{Profit% while selling} = \frac{(100 - 80)}{80} \times 100 = 25\%$$

Discount offered = 20%

$$\text{Final multiplying factor is } \frac{120}{100} \times \frac{125}{100} \times \frac{80}{100} = \frac{6}{5} \times \frac{5}{4} \times \frac{4}{5}$$

$$= \frac{6}{5} = 1.2$$

Hence, 20% profit overall.

70. (e); Let, shopkeeper bought 3 kgs, 4 kgs and 5 kgs of fruits costing Rs. 100/kg, Rs. 80/kg and Rs. 60/kg respectively.

$$\text{Total C.P.} = 3 \times 100 + 4 \times 80 + 5 \times 60 = 300 + 320 + 300$$

$$= 920$$

$$\text{S.P.} = 1.5 \times 920 = 1380$$

$$\text{Price per kg} = \frac{1380}{3+4+5} = \frac{1380}{12} = 115$$

71. (a); $3 \text{ Pen} + 4 \text{ Er} + 5 \text{ Pa} = 28$

$$A \rightarrow \text{Pa} + 0.25 = \text{Pen} + \text{Er}$$

$$B \rightarrow 10 \text{ Pa} + 8 \text{ Er} = 42.5$$

$$C \rightarrow \text{Pen} \rightarrow 1.8 \text{ Er}$$

So using any two of the 3 statements the cost of Eraser can be determined.

72. (c); $A \rightarrow x + y + x - y = 12, x = 6$

$$(x + y) - (x - y) = 6, y = 3$$

$$x^2 : y^2 = 36 : 9 \text{ or } 4 : 1$$

$$B \rightarrow y = \frac{x}{2}, x^2 : y^2 = 4 : 1$$

$$C \rightarrow \frac{y}{x} = \frac{1}{2}, x^2 : y^2 = 4 : 1$$

So any one of the statement is sufficient to answer the question.

73. (c); $A \rightarrow 0.82 \text{ MP} = 516.6, M = 630 \text{ Rs.}$

$$B \rightarrow \text{using A, } 630 = 1.25 \text{ CP, CP} = 504 \text{ Rs.}$$

$$C \rightarrow \text{using A}$$

$$M = 630, \text{ at } 10\% \text{ discount, SP} = 567$$

$$\text{C.P.} = \frac{567}{1.125} = 504 \text{ Rs.}$$

So using either B or C with A we can find the cost price.

74. (d); Let sum deposited by P $\rightarrow x$, by Q $\rightarrow y$

$$A \rightarrow \text{interest} = x \left[\left(1 + \frac{7.5}{100} \right)^3 - 1 \right]$$

$$B \rightarrow \text{interest} = y \left[\left(1 + \frac{7.5}{100} \right)^4 - 1 \right]$$

$$C \rightarrow x = \frac{2}{3}y$$

So clearly Q will get greater amount of interest.

So using all the 3 statements we can determine the answer of question.

75. (a); Let length of train = L, speed = S m/s

$$A \rightarrow \frac{L}{S} = 6$$

$$B \rightarrow \frac{L+L_2}{S-10} = 12$$

$$C \rightarrow \frac{L+40}{S} = 18$$

Using A and C we can find the speed of train

76. (e); Req'd average number

$$= \frac{48960 \times \frac{(25+10+15)}{100} + 45800 \times \frac{(30+18+12)}{100}}{2}$$

$$= \frac{24480 + 27480}{2} = \frac{51960}{2} = 25980 \text{ shirts}$$

77. (a); Req'd difference

$$= 48960(0.35 \times 0.75 + 0.15 \times 0.25) - 45800(0.30 \times 0.55 + 0.12 \times 0.25)$$

$$= 48960(0.2625 + 0.0375) - 45800(0.165 + 0.03)$$

$$= 48960 \times 0.3 - 45800 \times 0.195$$

$$= 14688 - 8931 = 5757$$

78. (c); Req'd %

$$\frac{40\% \text{ of } (48960 - 45800)}{40\% \text{ of } 45800} \times 100$$

$$= \frac{3160}{45800} \times 100 = \frac{3160}{458} = 6.89 \approx 7\%$$

79. (d); Req'd price

$$= 48960 \times \frac{25}{100} \times 700 + 48960 \times \frac{15}{100} \times 1500$$

$$= 8568000 + 11016000 = \text{Rs. } 19584000$$

$$= 19584 \text{ thousand}$$

80. (b); Req'd ratio

$$= \frac{48960 \times \frac{25}{100}}{45800 \times \frac{30}{100}} = \frac{12240}{13740} = \frac{204}{229}$$

$$= 204 : 229$$

81. (a); Eukaryotes according to the passage are cells more complex than single cell bacteria or archaea the inside of which is pretty sparse consisting free floating genetic material; eukaryotes on the contrary are "a eukaryote cell is a bustling metropolis". The passage does not support the inference that they are multi cellular—they are cells that make up multi cellular organisms. Option (c) and (d) are incorrect, the passage suggests exactly the contrary of these state-ments. Hence, the only acceptable is statement A and option (a).

82. (c); Option (a) is incorrect because it talks about "simple to complex creatures" whereas the passage is discussing cell origins and not creatures. Option (b) is incorrect in "scientists have concluded"—the passage does not imply that they have concluded. Option (d) is incorrect because it states that "scientists have proved" where as the passage merely suggests the possibility. Option (c) is the most accurate description of the main idea.

83. (d); The passage states there is no similarity between the genes and proteins of eukaryotes and bacteria. If eukaryotes were a fusion, or descendents of bacteria and archaea there should be some similarity. "Instead, they say the fusion theory is "surprisingly uninformative" when it comes to explaining the special genetic and cellular features of eukaryotes." Through various observations made in the passage the scientists have rejected the fusion theory; they have also postulated that (main idea) the more complex eukaryotes even preceded the bacteria and archaea; the only way they can reconcile the similarity is by finding some other reason perhaps by saying that they probably came

- from a common ancestor. It is not correct to say that similarities would have convinced them of the truth of fusion theory; it will go against the main idea of the passage. Hence all the other option can be eliminated.
84. (b); The question asks you to choose the best explanation/definition of the term molecular crowding — which merely refers to the concentration. Its effects are best left out of the explanation of the term. Though the other options are correct, they do not answer the specific query. If you made a mistake here, it is because you did not pause to understand the specific nature of the query — especially because it is a scientific topic.
85. (b); “Bacteria and archaea may be the ‘priced to move’ models of eukaryotes, cells that opted out of the costly cellular gadgetry and large genomes of eukaryotes. Without these expensive extras, early bacteria could have turned their energies toward growing and reproducing faster using fewer resources.” This makes option (b) the most logical comparison. Option (d) is eliminated because of the word “inferior.”
86. (c); Refer to the 1st paragraph of the passage, “Newspapers have reported heightened racial abuse of ‘immigrants’ in the aftermath of the referendum. The targets of individual and collective ire are probably British citizens.”
87. (d); System of check and balances means “a system in which the different parts of an organization (such as a government) have powers that affect and control the other parts so that no part can become too powerful”
88. (a); Refer to the last paragraph of the passage, “finally, the option to secede from a country or a regional organization on the ground that people will lead better lives must be the ultimate delusion in political dream-making. A state of one’s own does not necessarily deepen democracy.”
89. (b); Xenophobia means dislike of or prejudice against people from other countries.
90. (a);
91. (b); “In the nuclear age, our mind-made world has been found flawed and dangerous, even lethal” makes the paragraph meaningful as it can be inferred from the previous sentence of the paragraph where it talks about the mechanical world.
92. (c); “Often the negative dynamics in their relationships kill creative potential.” fits to the meaning of the paragraph as it can be easily inferred from the very following sentence of the paragraph.
93. (b); “It would be wrong to justify present actions seeking shelter under history.” makes the paragraph coherent. It can be inferred from the preceding and following sentences.
94. (c); “Not at all.” fits the blank more appropriately as it can be inferred from the first two sentences of the paragraph.
95. (d); “Yet it is inseparable from every form and phenomenon either material or spiritual.” fills the blank meaningfully.
96. (c); The passage says that in the US housing market, building new houses is on the rise, but interest rates are rising. The logical conclusion to this line of argument could be option (c) – rising interest rates are putting pressure on mortgage borrowing costs. Option (a) is a vague statement. Option (b) is unrelated to the paragraph. The question being discussed is not which of the two forces will prevail, so option (d) is ruled out. Facts are presented and there is no tussle between the two so (d) is ruled out.
97. (d); The penultimate sentence says that if you have harsh standards, you can have a tendency to go over and over an error in judgement. Option (d) is continuation of this idea as it states the result of such harsh standards. ‘Rumination’ is to go over and over a problem. Option (a) has no relevance to the preceding sentence. Options (b) and (c) are deviations from the main idea.
98. (c); ‘Panache’ in the penultimate sentence means distinctive style or elan. Elan can gratify people’s ego as mentioned in option (c). So (c) is the right option. Statement (a) has no relevance to the paragraph as it talks about the merchandise entreating people to make right choices. (b) is a general statement having little relevance to the paragraph. Option (d) is a different point.
99. (b); ‘A relatively stable pattern of behaviour’ in the penultimate sentence is the clue to pick option (b) as the answer - one’s personality traits don’t change from one day to the next. Options (a) and (c) state different ideas not related to the passage. Moreover, (c) is negative. Option (d) is incorrect because the penultimate sentence doesn’t suggest that we are unlikely to change over time. It is too far-fetched.
100. (a); Options (a) and (d) appear to be close. A careful reading suggests that the latter part of the passage talks about the problems of the enclaves, and not those of the home state. So (d) can be eliminated. Option (a) is the right choice because it mentions the problem faced by the enclave and is well related to the preceding sentence. Options (b) can be ruled out on the same ground as above. Option (c) is unrelated.
101. (e); All options except (e) are inter-linked to form a coherent paragraph. The paragraph in the order **BACD** talks about the psychological effects and impacts of Nostalgia. Whereas option (e) talks about some particular incident which is not

mentioned in any of the given options. Hence only option(e) does not fit into the theme of the paragraph.

102.(c); All options except (c) are inter-linked to form a coherent paragraph. Option (c) talks about “home-grown” development which cannot be linked with any other options. Other options in the sequence **DEAB** form a coherent group and talk about urban settlement issues.

103.(d); All options except (d) are inter-linked to form a coherent paragraph. Other options in the sequence **BEAC** talk about certain reforms needed in the economy for the development and hence form a coherent paragraph, whereas option (d) depicts a result based on certain facts.

104.(d); All options except (d) are inter-linked to form a coherent paragraph. Other options in the sequence of **ACBE** talk about the extent of economic slowdown and hence form a coherent paragraph, whereas option (d) does not fit anywhere in this paragraph as it is related to some other issues of the economy.

105.(a); All options except (a) are inter-linked to form a coherent paragraph. All other options in the sequence of **ECBD** talk about the impact of fake news in election results of different countries around the globe and hence form a coherent paragraph, whereas option (a) also talks about fake story but it doesn't fit anywhere in the paragraph as it depicts a factual matter.

106.(b); After being a journalist for well over three decades, I realise that the foundation for this passion is the precious human attribute: hope.

107.(e); (i) As seen from the northern hemisphere during the first week of 2017, comet C/2016 U1 NEOWISE will be in the southeastern sky shortly before dawn.

(ii) During the first week of 2017, comet C/2016 U1 NEOWISE was seen from the northern hemisphere which would be in the southeastern sky shortly before dawn.

108.(d); (i) BHIM (Bharat Interface for Money), a mobile payment app was launched by Prime Minister NarendraModi at a DigiDhanprogramme in New Delhi on Friday.

(iii) At a DigiDhanprogramme in New Delhi on Friday, Prime Minister NarendraModi launched mobile payment app BHIM (Bharat Interface for Money).

109.(c); With an increase of Rs.2 per 14.2-kilogram cylinder, subsidised LPG will now cost Rs.434.71 a bottle against Rs. 432.71 previously.

110.(d); (ii) Promising to convert three crore Kisan credit cards to Rupay cards in the next three months, the Prime Minister flagged the inconvenience posed by Kisan credit cards which require farmers to go to the bank to withdraw cash against their credit limit.

(iii) The Prime Minister promised to convert three crore Kisan credit cards to Rupay cards in the next three months flagging the inconvenience posed by Kisan credit cards which require farmers to go to the bank to withdraw cash against their credit limit.

111.(d); Both are similar in meaning .Remonstrate and expostulate means ‘to express strong disapproval or disagreement’.

112.(e); Both are opposite in meaning .‘Myriad’ means ‘a countless or extremely great number of people or things’ while ‘measurable’ means ‘able to be measured’.

113.(b); Both are opposite in meaning .‘Glut’ means ‘an excessively abundant supply of something’ while ‘insufficiency’ means ‘the condition of being insufficient’.

114.(b); Both are similar in meaning .Rhetoric and eloquence means ‘fluent or persuasive speaking or writing’.

115.(e); Both are similar in meaning .Usurp and expropriate means ‘take (a position of power or importance) illegally or by force’.






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