

Q1. A sum of money invested at $16\frac{2}{3}\%$ simple interest p.a. for 4 years yields the same interest as another sum invested at $12\frac{1}{2}\%$ simple interest p.a. for 6 yrs. What is the ratio of the two sum invested?

- (a) 8 : 9
- (b) 9 : 8
- (c) 4 : 3
- (d) 3 : 4

S1. Ans.(b)

Sol.

$$P_1 \times \frac{100}{6} \times \frac{4}{100} = P_2 \times \frac{100}{8} \times \frac{6}{100}$$

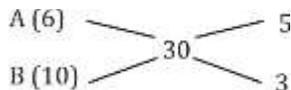
$$\Rightarrow \frac{P_1}{P_2} = \frac{9}{8}$$

Q2. Two inlet pipes A and B can fill empty cistern in 6 and 10 hrs respectively. They are switched on together but pipe B had to be closed 1 hour before the cistern was full. How many hours did they take to fill the cistern?

- (a) $4\frac{1}{2}$ hr
- (b) $5\frac{3}{4}$ hr
- (c) $3\frac{1}{3}$ hr
- (d) $4\frac{1}{8}$ hr

S2. Ans.(d)

Sol.



$$(5 + 3) \times t + 5 \times 1 = 30$$

$$t = \frac{25}{8}$$

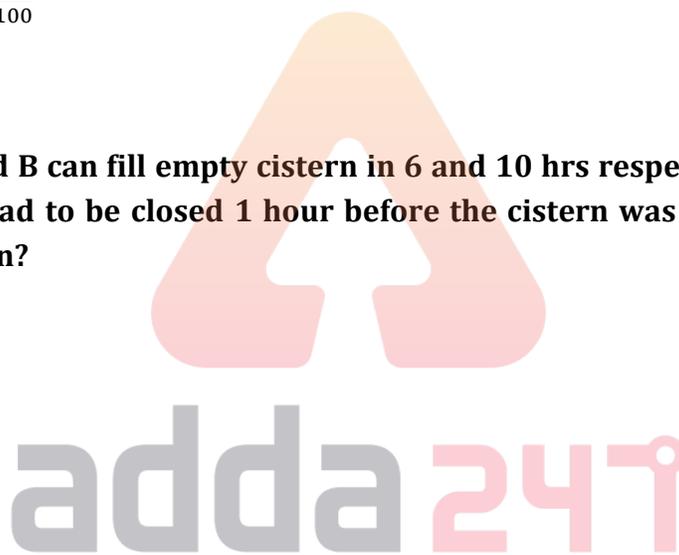
$$\text{Total time} = \frac{33}{8} = 4\frac{1}{8} \text{ hr.}$$

Q3. $81 \div 3^3 \times 4 - 10 = ?$

- (a) 1
- (b) 2
- (c) 0
- (d) 12

S3. Ans.(b)

$$\text{Sol. } 81 \div 27 \times 4 - 10 = 2$$



Q4. Sum of a two digit number and number obtained by reversing digits is 66. Sum of digits of the number is ?

- (a) 5
- (b) 6
- (c) 12
- (d) 9

S4. Ans.(b)

Sol. Let the number be $10a+b$

ATQ,

$$(10a + b) + (10b + a) = 66$$

$$\Rightarrow 11(a + b) = 66 \Rightarrow a + b = 6$$

Q5. The HCF of 268 and 469 is

- (a) 67
- (b) 53
- (c) 73
- (d) 59

S5. Ans.(a)

Sol. HCF is 67

Q6. One fifth of a number is 4 less than one-fourth of number preceding it. Find the original number.

- (a) 84
- (b) 85
- (c) 57
- (d) 58

S6. Ans.(b)

Sol. ATQ,

$$(x - 1) \frac{1}{4} - \frac{1}{5} \times x = 4$$

$$\Rightarrow \frac{1}{20}x = \frac{17}{4} \Rightarrow x = 85$$

Q7. After meeting with an accident a train starts moving at $\frac{3}{4}$ its speed. Due to this, it is 120 minutes late. Find the original time of the journey beyond the point of the accident?

- (a) 6 hrs
- (b) 4 hrs
- (c) 90 min
- (d) 3 hrs

S7. Ans.(a)

Sol. Initial Final

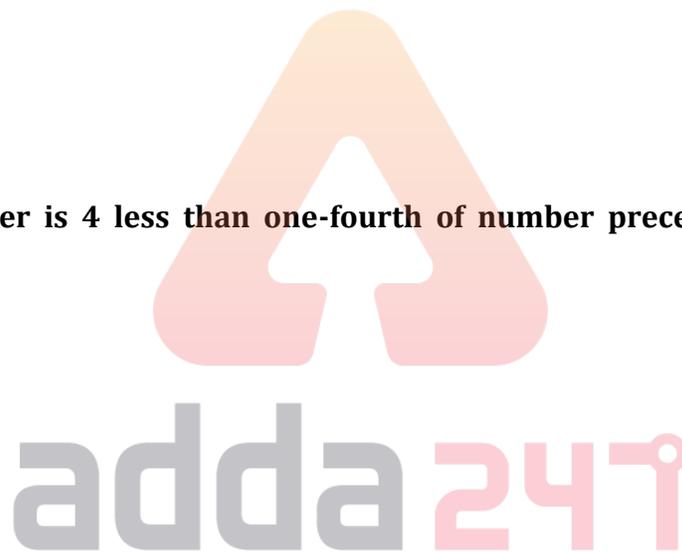
Speed 4 3

Time 3 4

1 unit \rightarrow 120 minutes

3 unit \rightarrow 360 minutes

Or 6 hours



Q8. Atul can cycle at 8 km an hour and walk at 5 km an hour. To cover a distance of 61 km, he takes 9.5 hrs. how many kilometers did he cover on cycle?

- (a) 45
- (b) 30
- (c) 36
- (d) 48

S8. Ans.(c)

Sol.

$$\frac{x}{8} + \frac{(61 - x)}{5} = 9.5$$

$$\Rightarrow 3x = 108$$

$$\Rightarrow x = 36 \text{ km}$$

Q9. The length, breadth and height of a room are in the ratio 4 : 3 : 2. If the length is doubled, breadth is one-third and the height halves, by what percentage would the cost of painting the four walls of the room change.

- (a) $35\frac{5}{7}\%$
- (b) $37\frac{4}{9}\%$
- (c) $52\frac{1}{3}\%$
- (d) $22\frac{1}{2}\%$

S9. Ans.(a)

Sol. Initial area of walls = 2 (lh + bh)

$$= 2(8 + 6) = 28$$

new area of walls

When, l = 8 ; b = 1, h = 1

$$\Rightarrow 2(8 + 1)$$

$$\Rightarrow 18$$

$$\% \text{ change} = \frac{10}{28} \times 100\%$$

$$= 35\frac{5}{7}\%$$

Q10. A clock is at 03 : 10 am. How many degrees would the minute hand have cumulatively covered when the time is 04 : 05 am?

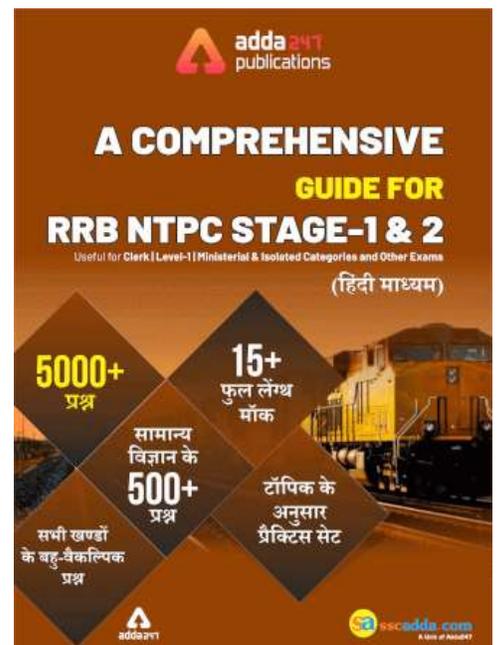
- (a) 270°
- (b) 330°
- (c) 295°
- (d) 355°

S10. Ans.(b)

Sol. 60 minute → 360°

1 minute → 6°

55 minute → 330°



Q11. The ratio of boys to girls in a school is 8 : 9. If 14 boys are admitted and 13 girls leave the school, the ratio becomes 1 : 1. The original number of boys in the school is

- (a) 196
- (b) 206
- (c) 216
- (d) 256

S11. Ans.(c)

Sol.

$$\frac{8x + 14}{9x - 13} = \frac{1}{1} \Rightarrow x = 27$$

$$\text{Boys} = 8x = 216$$

Q12. Given that $A = \tan 30^\circ$ and $B = \frac{\cot 60 \cot 30 + 1}{\cot 30 - \cot 60}$, which of the relations stated below is true?

- (a) $A > B$
- (b) $A < B$
- (c) $A + B = 1$
- (d) $A = B$

S12. Ans.(b)

Sol. $B = \cot(60 - 30) = \cot 30$

Or $\tan 60$

So, $A < B$

Q13. Consider the following question and decide which of the statements is sufficient to answer the question.

Question:

Find the value of p

Statements :

I. $x^2 - 4px + 64 = 0$

II. The equation has the solution as '2'.

- (a) Both I and II together
- (b) Only I
- (c) Only II
- (d) Neither I nor II

S13. Ans.(a)

Sol. Putting $x = 2$

$$4 - 8p + 64 = 0$$

$$p = \frac{68}{8} = \frac{17}{2}$$

Q14. $3/7$ when divided by another number gives $1/21$, what is the other number?

- (a) $15/7$
- (b) $7/9$
- (c) 9
- (d) $1/18$

S14. Ans.(c)

Sol.

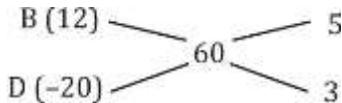
$$\frac{3}{7 \times x} = \frac{1}{21} \Rightarrow x = 9$$

Q15. A builder can build a wall in 12 hours while destroyer can demolish it completely in 20 hours. Both set to work together for 15 hours than destroyer was taken out. What was the total time taken to build the wall?

- (a) 21 hours
- (b) 16 hours
- (c) 25 hours
- (d) 32 hours

S15. Ans.(a)

Sol.



Work done in 15 hours = $(5 - 3) \times 15 = 30$ units

Remaining work = $60 - 30 = 30$ units

Required time = $15 + \frac{30}{5} = 21$ hours

Q16. The LCM of 228 and 399 is:

- (a) 2105
- (b) 1877
- (c) 1744
- (d) 1596

S16. Ans.(d)

Sol. Factors of 228 = $19 \times 3 \times 4$

Factors of 399 = $19 \times 3 \times 7$

LCM = $19 \times 3 \times 4 \times 7 = 1596$

Q17. A person driving at a speed of 30 km/hr reaches office 2 minutes early, while he reaches 3 minutes late if driving at 25 km/hr. What is the distance (in km) that he is covering?

- (a) 12.5
- (b) 15
- (c) 9.8
- (d) 14.6

S17. Ans.(a)

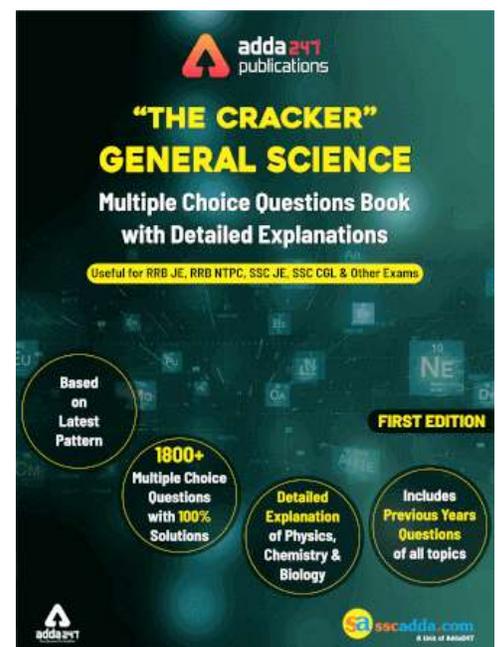
Sol. Let distance be 'd'

$$\frac{d}{30} + \frac{2}{60} = \frac{d}{25} - \frac{3}{60}$$

$$\Rightarrow \frac{d}{150} = \frac{1}{12} \Rightarrow d = 12.5 \text{ km}$$

Q18. A father is four times as old as his son now. After 5 years, their ages will be in the ratio of 3 : 1. Find the present age of the father.

- (a) 35 years
- (b) 45 years
- (c) 40 years
- (d) 50 years



S18. Ans.(c)

Sol.

$$\frac{4x + 5}{x + 5} = \frac{3}{1}$$

$$x = 10$$

Age of father = $4x = 40$ years.

Q19. Amit travels 20 m in 9 sec and then another 40 m in 11 sec. What is the average speed of Amit?

- (a) 1 m/s
- (b) 2.5 m/s
- (c) 3.6 m/s
- (d) 3 m/s

S19. Ans.(d)

Sol. Average speed = $\frac{\text{Total distance}}{\text{Total time}}$

$$= \frac{20+40}{9+11} = \frac{60}{20} = 3 \text{ m/s}$$

Q20. Rs. 460 is divided in the ratio 13 : 7. The smaller share is equal to ____?

- (a) Rs. 157
- (b) Rs. 195
- (c) Rs. 163
- (d) Rs. 161

S20. Ans.(d)

Sol. 20 Unit \rightarrow 460

1 Unit \rightarrow 23

7 Units \rightarrow 161

Q21. 49 out of 70 is _____%

- (a) 49
- (b) 10
- (c) 70
- (d) 63

S21. Ans.(c)

Sol. $\frac{49}{70} \times 100\% = 70\%$

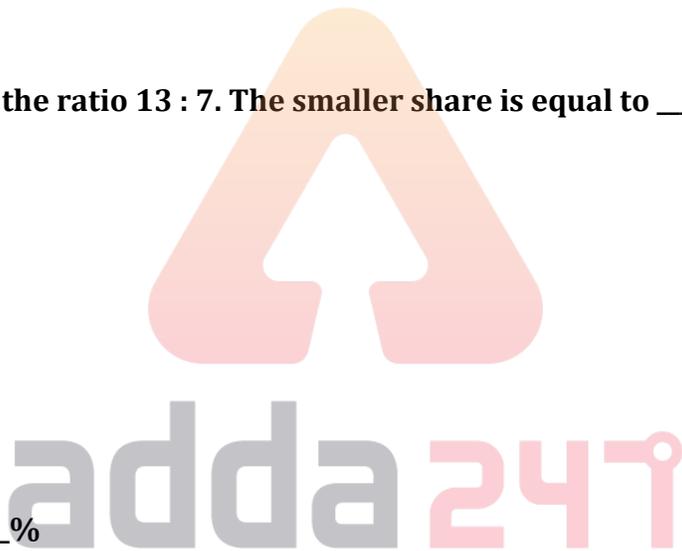
Q22. Find the next term in the series.

11, 14, 19, 26, ?

- (a) 36
- (b) 37
- (c) 34
- (d) 40

S22. Ans.(b)

Sol. Difference of 3, 5, 7, 11.....(series of prime numbers)



Q23. Which of the following numbers is not a prime no.

- (a) 113
- (b) 161
- (c) 127
- (d) 181

S23. Ans.(b)

Sol. 161 is not a prime number. Factors are 23 and 7

Q24. What is the value of $\frac{1}{\cos^2 \theta} - (1 + \tan^2 \theta) = ?$

- (a) 1
- (b) 0
- (c) 2
- (d) -1

S24. Ans.(b)

Sol. $\sec^2 \theta - 1 - \tan^2 \theta = 0$

Q25. Solve for x; $x \in \mathbb{N}$:

$$(x - 3)^2 - 81 = 0$$

- (a) 12
- (b) 6
- (c) 9
- (d) -3

S25. Ans.(a)

Sol. Putting $x = 12$

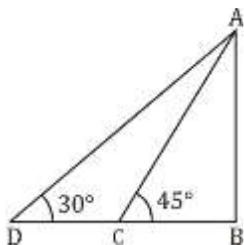
LHS = RHS

Q26. Find the height (in m) of a building if the Shadow of building is increases by 35 m when the angle of elevation of the sun decreases from 45° to 30° .

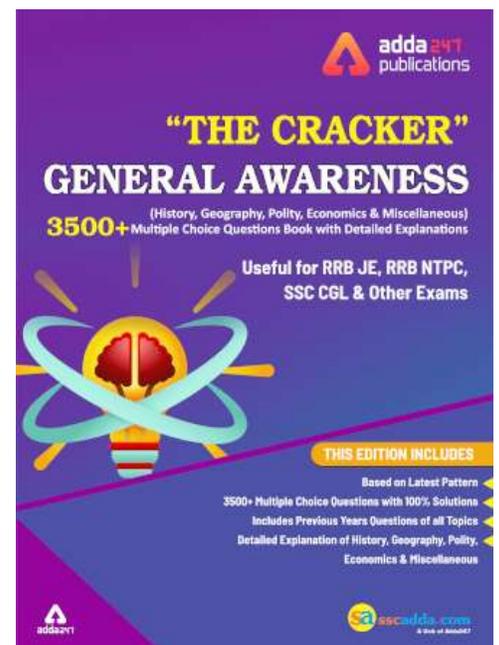
- (a) $\frac{35}{2}(\sqrt{3} - 1)$
- (b) $\frac{35}{2}(2 - \sqrt{3})$
- (c) $\frac{35}{2}(\sqrt{3} + 2)$
- (d) $\frac{35}{2}(\sqrt{3} + 1)$

S26. Ans.(d)

Sol.



AB \rightarrow building



$$\tan 45^\circ = \frac{AB}{BC}$$

$$\Rightarrow AB = BC$$

$$\text{Also, } \tan 30^\circ = \frac{AB}{DB}$$

$$DB = \sqrt{3} AB$$

$$\text{Now } DB - BC = 35 \text{ m}$$

$$\Rightarrow (\sqrt{3} - 1) AB = 35 \text{ m}$$

$$\Rightarrow AB = \frac{35}{2}(\sqrt{3} + 1)$$

Q27. $\frac{1732}{141} = 12.29$, then what is the value of 122.9×0.141 ?

(a) 17.32

(b) 0.1732

(c) 173.2

(d) 1.732

S27. Ans.(a)

Q28. Ramniwas had Rs. 5230 in his bank account. He deposited Rs. 498 in his bank account after that he withdrew the money to pay for 6 shoes. If the remaining balance of his account is Rs. 3289.6, then what is the price of each pair of shoes.

(a) Rs384.6

(b) Rs 406.4

(c) Rs 398.9

(d) Rs 412.4

S28. Ans.(b)

Sol. Price of 6 shoes = $5230 + 498 - 3289.6 = 2438.4$

Price of each pair = $\frac{2438.4}{6} = \text{Rs. } 406.4$

Q29. Find the compound interest on Rs. 8000 for 2 years at 6% per annum when compounded yearly ?

(a) Rs. 988.8

(b) Rs. 889.6

(c) Rs. 1024.8

(d) Rs. 923.4

S29. Ans.(a)

Sol. C.I = $8000 \times \frac{12.36}{100} = 988.8$

Q30. The salaries of Atul and Dev are in the ratio 6 : 5. If the salary of each increases by Rs. 2000, then the new ratio becomes 13 : 11 what was the Atul's salary before increment.

(a) 20,000

(b) 26,000

(c) 24,000

(d) 22,480

S30. Ans.(c)

Sol.

$$\frac{6x + 2000}{5x + 2000} = \frac{13}{11}$$

$$66x + 22000 = 65x + 26000$$

$$x = 4000$$

Atul's salary = $6x$ = Rs. 24000.

Q31. 7th of April 2014 is a Monday. What day would be 14 August 2014?

- (a) Wednesday
- (b) Friday
- (c) Thursday
- (d) Monday

S31. Ans.(c)

Sol. 7 April to 14 August = $23 + 31 + 30 + 31 + 14 = 129$ days

$$129/7 = 3 \text{ odd days}$$

So, 14 August = Monday + 3 = Thursday.

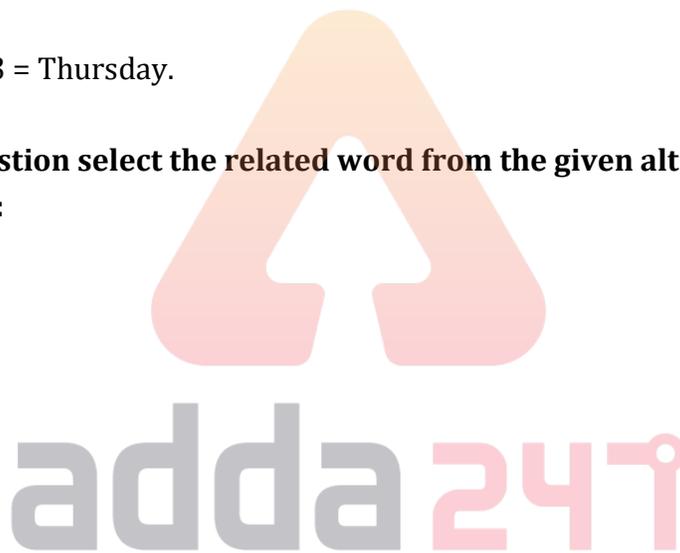
Q32. In the following question select the related word from the given alternative?

GATES : JDWHV :: LINUX :

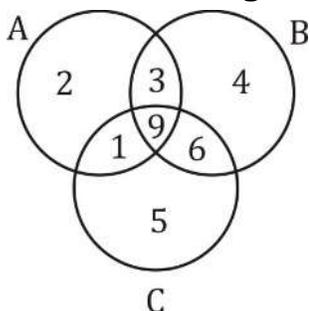
- (a) OLQXA
- (b) OLQVZ
- (c) NKQXA
- (d) NKQVZ

S32. Ans.(a)

Sol. +3 pattern



Q33. The given Venn diagram represents the sports preference of a group of school students. There are three games: A-Hockey, B-Cricket, C- Squash. How many student play at least one game?



- (a) 15
- (b) 21
- (c) 30
- (d) 25

S33. Ans.(c)

Sol. No. of students = 30

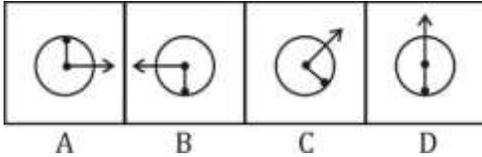
**RRB NTPC 2019
PRIME PACKAGE**

100 + TOTAL TESTS

- 40 Full Length Mocks
- 30 Section Wise Tests
- 10 Previous Years papers
- 20 + Topic Wise tests
- eBooks

BILINGUAL

Q34. Choose the figure which is different from the others in the given set.



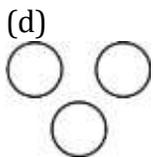
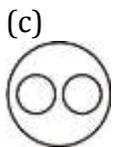
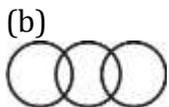
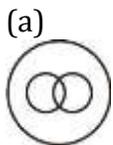
- (a) A
- (b) B
- (c) C
- (d) D

S34. Ans.(d)

Sol. Except (d), all other have a 90 degree angle between both hands.

Q35. Which of the following correctly represents the relationship between.

1. Eyes
2. Forehead
3. Face



S35. Ans.(c)



Q36. Out of the four given figures, three are similar in a certain manner. However, one figure is NOT like the other three.

R	U	M	K
20	23	15	12
A	B	C	D

- (a) A
- (b) B
- (c) C
- (d) D

S36. Ans.(d)

Sol. $R \rightarrow 18 + 2 = 20$

$U \rightarrow 21 + 2 = 23$

$M \rightarrow 13 + 2 = 15$

$K \rightarrow 11 + 2 = 13 \neq 12$

Q37. Direction: There are statement(s) which are followed by conclusion(s). Choose the conclusion which logically follow from the given statements

Statement: Domestic demand has been increasing faster than the production of indigenous crude oil.

Conclusion:

I. Crude oil must be imported

II. Domestic demand should be reduced

- (a) If only conclusion I follows;
- (b) If only conclusion II follows;
- (c) If either I or II follows;
- (d) If neither I nor II follows; and

S37. Ans.(c)

Sol. The statement mentions that demand for oil is increasing faster than the production. So. Either the demand must be reduced or oil must be imported to cope with the increasing demand. Thus either I or II follows.

Q38. In a certain language, 'MEI TOH CHALA' is coded as 'mo to yo', 'CHALA YE BHI' is coded as 'ao mo xo', 'MEI PAR TOH' is coded as 'ho yo to', What is the code for 'YE MEI BHI' in that language?

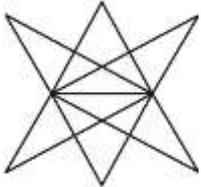
- (a) ao to xo
- (b) ho to yo
- (c) ao xo yo
- (d) 'ao xo yo' OR 'ao to xo'

S38. Ans.(d)

Sol. CHALA → mo

MEI/TOH → yo/to

Q39. How many triangles are there in the following figure?



- (a) 16
- (b) 18
- (c) 22
- (d) more than 23

S39. Ans.(d)

Sol. No. of triangles = more than 23

Q40. Choose figure that is different from the rest.

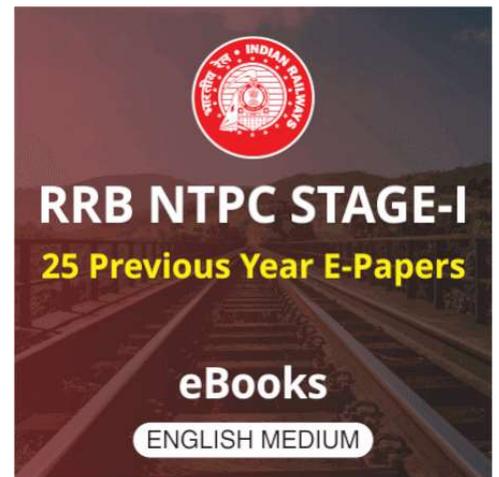
&	#	;	@	\$
a	b	c	d	e

- (a) b
- (b) c
- (c) e
- (d) a

S40. Ans.(b)

Sol. Only figure 'c' is punctuation sign.

adda247

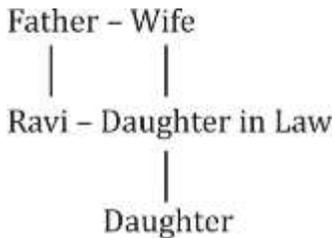


Q41. How is Ravi related to the daughter of only daughter-in-law of wife of Ravi's father.

- (a) Husband
- (b) Son
- (c) Father
- (d) Grand Father

S41. Ans.(c)

Sol.



Q42. Direction: There are statement(s) which are followed by conclusion(s). Choose the conclusion which logically follow from the given statements

Statement: All the organised persons find time for rest. Sunita, inspite of her very busy schedule, finds time for rest.

Conclusion:

- I. Sunita is an organised person
- II. Sunita is an Industrious person
- (a) If only conclusion I follows;
- (b) If only conclusion II follows;
- (c) If neither I nor II follows; and
- (d) If both I and II follow

S42. Ans.(d)

Sol. Sunita has a very busy schedule. This means that she is Industrious. But still she finds time for rest. This, means that she is an organised person. So, both I and II follow.

Q43. Which of the following does NOT belong to this group?

- (a) Notebook
- (b) Pen
- (c) Scale
- (d) Principal

S43. Ans.(d)

Sol. Except (d) all other are regular items found with student.

Q44. P, Q, R, S are playing carrom sitting in clockwise direction.

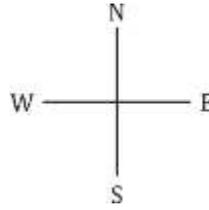
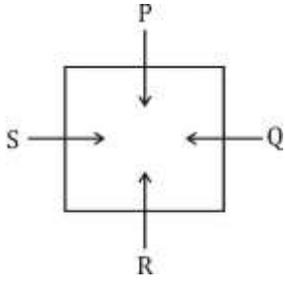
If R is facing North. What direction is Q facing.

- (a) East
- (b) West
- (c) North
- (d) South



S44. Ans.(b)

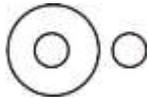
Sol.



Q45. Choose the best suitable venn diagram for the following words:

Rabbit, Tomato, Animals

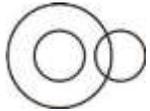
(a)



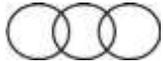
(b)



(c)



(d)



S45. Ans.(a)

Q46. How many times between 3'O clock and 4'O clock the hands of the clock are exactly opposite to each other?

(a) 1

(b) 2

(c) 3

(d) 4

S46. Ans.(a)

Q47. Select the option figure that will complete the series of question figure.

4	5	7	4	6	7	?
7	6	6	5	5	4	

(a)

5	4
7	6

(b)

4	5
7	6

(c)

5	6
4	7

(d)

4	7
5	6

S47. Ans.(c)

Sol. Moving in clockwise direction.

Q48. Direction: There are statement(s) which are followed by conclusion(s). Choose the conclusion which logically follows from the given statements

Statement: This book 'Z' is the only book which focuses its attention to the problem of poverty in India between 1950 to 1980.

Conclusion:

I. There was no question of poverty before 1950.

II. No other book deals with poverty in India during 1950 to 1980.

- (a) If only conclusion I follows;
- (b) If only conclusion II follows;
- (c) If neither I nor II follows; and
- (d) If both I and II follow

S48. Ans.(b)

Sol. The phrase "only book" in the statement makes II implicit. However, nothing about the state of poverty before 1950 can be deduced from the statement. So, I does not follow.

Q49. Final the odd one out :

- (a) Sports – Coach
- (b) Film – Director
- (c) Book – Editor
- (d) Writing – Rider

S49. Ans.(d)

Sol. all relations exist except option (d).

Q50. What comes next in the given series.

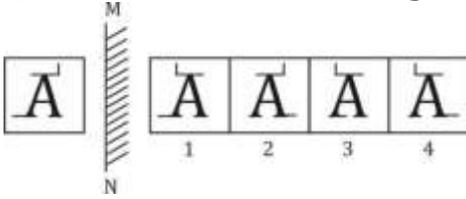
18Y, 23V, 28S, ?

- (a) 34Q
- (b) 32T
- (c) 33P
- (d) 33Q

S50. Ans.(c)

Sol. +5, -3 pattern

Q51. Choose the mirror image for the following figure.



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

S51. Ans.(d)

Q52. Read the given statements and conclusions carefully and select which of the conclusions logically follow(s) statements :

All mouse are Rat
Some Rat are tiger.

Conclusion

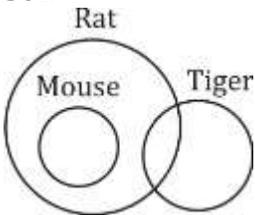
I. Some tiger are rat

II. No mouse is tiger

- (a) Only I follows
- (b) Both I and II follow
- (c) Neither I nor II follows
- (d) Only II follows

S52. Ans.(a)

Sol.



Q53. If IRELAND is written as 9185121144, how can EGYPT be written?

- (a) 58241719
- (b) 57251620
- (c) 52241721
- (d) 57261721

S53. Ans.(b)

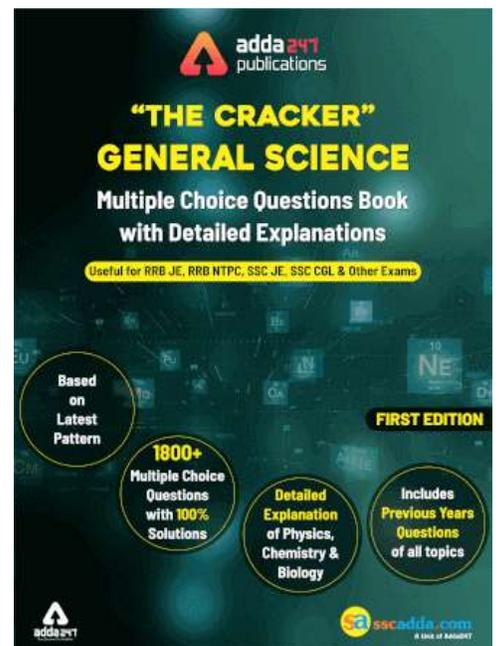
Sol. Position of alphabets in English alphabet series.

Q54. 9 * 5 A # 2 \$ @ 4 3 B & D 7

If the first half of the above series is reversed then using the new series find the number of numbers that comes right of '2'.

- (a) 5
- (b) 3
- (c) 6
- (d) 4

S54. Ans.(a)



Q55. Direction: There are statement(s) which are followed by conclusion(s). Choose the conclusion which logically follow from the given statements

Statement: The secret of success is constancy of purpose.

Conclusion:

I. Constant dripping wears the stone.

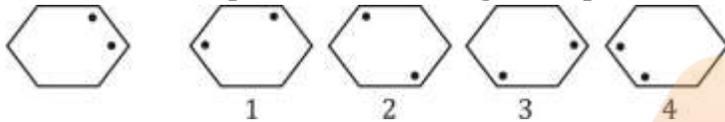
II. Single- minded devotion is necessary for achieving success.

- (a) If only conclusion I follows;
- (b) If only conclusion II follows;
- (c) If neither I nor II follows; and
- (d) If both I and II follow

S55. Ans.(d)

Sol. Both I and II directly follow from the given statement

Q56. Select the pattern from the given options that resembles closest to :

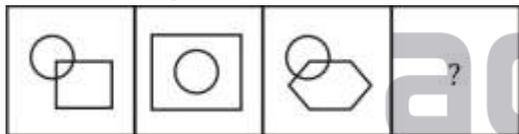


- (a) 1
- (b) 2
- (c) 3
- (d) 4

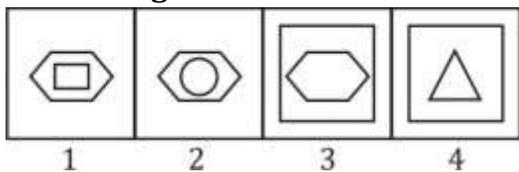
S56. Ans.(d)

Q57. Which answer figure will come next in the given problem figure series?

Problem Figures :



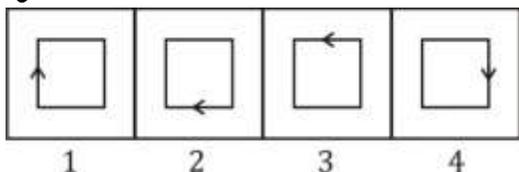
Answer Figures :



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

S57. Ans.(b)

Q58. Find the odd one out.



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

S58. Ans.(c)

Sol. Except figure '3'. All other have arrow in clockwise direction.

Directions (59-60): In each question below is given a statement followed by two courses of action numbered I and II. On the basis of the information given in the statement. You have to assume everything in the statement to be true, then decide which of the two given suggested courses of action logically follows for pursuing.

Q59. Statement: The State Government has decided to declare "Kala Azar" as a notifiable disease under the Epidemics Act. 1987. Family members or neighbors of the patient are liable to be punished in case they do not inform the state authorities.

Courses of Action:

(I) Efforts should be made to effectively implement the Act.

(II) The cases of punishment should be propagated through mass media so that more people become aware of the stern action.

- (a) if only I follows
- (b) if only II follows
- (c) if neither I nor II follows
- (d) if both I and II follow

S59. Ans.(d)

Sol. When the Government takes such an action it is necessary that people are made aware of the consequences they would face if they do not obey the directive. Hence II follows. I is obvious.

Q60. Statement: Every year, at the beginning or at the end of the monsoons, we have some cases of conjunctivitis, but this year it seems to be a major epidemic witnessed after nearly four years.

Courses of Action:

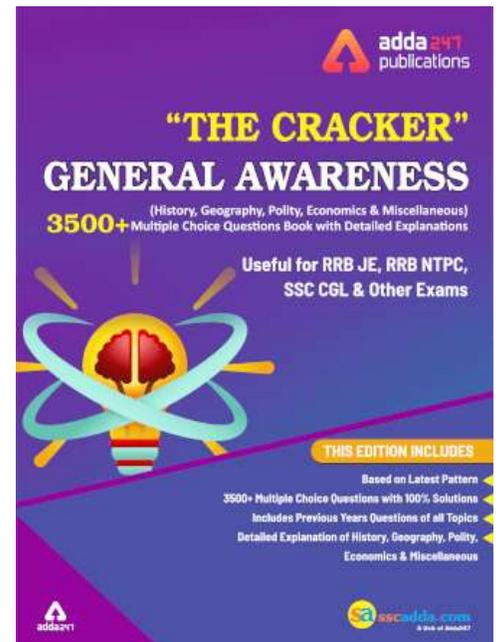
(I) Precautionary measures should be taken after every four years to check this epidemic.

(II) People should be advised to drink boiled water during winter season.

- (a) if only I follows
- (b) if only II follows
- (c) if neither I nor II follows
- (d) if both I and II follow

S60. Ans.(c)

Sol. Against an epidemic, precautionary measures should be taken every year and not every four years. Hence I does not follow. II is not a preventive action against conjunctivitis. Hence II also does not follow.



Q61. Who was the first Test Centurion in Indian cricket?

- (a) Vinu Mankad
- (b) C.K Naidu
- (c) Lala Amarnath
- (d) Sunial Gavaskar

S61. Ans.(c)

Sol. Lala Amarnath, was the first cricketer to score a Test century for India. Playing his debut match against England in 1933 on the Bombay Gymkhana Grounds, he scored a 118 in the second innings.

Q62. The term 'double fault' is associated with

- (a) Baseball
- (b) Tennis
- (c) Golf
- (d) Brdige

S62. Ans.(b)

Sol. Double fault in tennis is two consecutive faults during service

Q63. Davis cup is associated with which of the following game?

- (a) Volleyball
- (b) Badminton
- (c) Tennis
- (d) Handball

S63. Ans.(c)

Sol. The Davis Cup is the premier international team event in men's tennis. It is run by the International Tennis Federation (ITF) and is contested annually between teams from competing countries in a knock-out format.

Q64. Who is the winner of Australia open 2019 in Men's?

- (a) Novak Djokovic
- (b) Rafael Nadal
- (c) Roger fedrer
- (d) None of the above

S64. Ans.(a)

Sol. Novak Djokovic won a record seventh Australian Open title, defeating Rafael Nadal in the final, 6–3, 6–2, 6–3 in two hours and four minutes. He won the Australia open 2019.

Q65. When a body slides against a rough horizontal surface, the work done by friction is

- (a) Positive
- (b) Zero
- (c) Negative
- (d) Constant

S65. Ans.(c)

Sol. If a force acting on a body has a component in the opposite direction of displacement, the work done is negative, when a body slides against a rough horizontal surface, its displacement is opposite to that of the force of friction. He works done by the friction is negative.

Q66. Maxwell is the unit of

- (a) Intensity of magnetization
- (b) Permeability
- (c) Magnetic flux
- (d) Magnetic susceptibility

S66. Ans.(c)

Sol. Maxwell is the unit of magnetic flux.

Q67. The compound which contains ionic bond is-

- (a) CH₄
- (b) N₂
- (c) CaCl₂
- (d) CCl₄

S67. Ans.(c)

Sol. CaCl₂ is an ionic bond. This is because the calcium gives up an electron to each of the chlorine atoms resulting in the calcium becoming Ca²⁺ ions while the chlorine forms Cl⁻ ions. These ions then come together through electrostatic attraction because they have opposite charges to form CaCl₂.

Q68. Metal with maximum density here is?

- (a) Fe
- (b) Mo
- (c) Hg
- (d) Os

S68. Ans.(d)

Sol. Osmium is a chemical element with symbol (Os) and atomic number 76. It has maximum density of 22.5g/cm³ among the given elements.

Q69. Modern periodic law had been given by

- (a) Moseley
- (b) Mendeleev
- (c) Lothar-Mayer
- (d) Lavoisier

S69. Ans.(a)

Sol. Modern periodic law had been given by Moseley. According to Moseley, similar properties recur periodically when elements are arranged according to increasing atomic number not weights, determine the factor of chemical properties.

Q70. Heating of a ore below its melting point in the absence of air is known as

- (a) Roasting
- (b) Smelting
- (c) Refining
- (d) Calcination

S70. Ans.(d)

Sol. Heating of ore in the absence of air below its melting point is called Calcination.

**RRB NTPC 2019
PRIME PACKAGE**

100 + TOTAL TESTS

- 40 Full Length Mocks
- 30 Section Wise Tests
- 10 Previous Years papers
- 20 + Topic Wise tests
- eBooks

BILINGUAL

Q71. Red rust disease of tea is caused by

- (a) Bacteria
- (b) Lichen
- (c) Fungi
- (d) Green algae

S71. Ans.(d)

Sol. Red rust an important disease of the tea plant (*Camellia sinensis*). Orange-brown, velvety areas appear on the leaves of infected plants. The disease is caused by algae of the genus *Cephaleuros*.

Q72. Which of the following is not a root?

- (a) Potato
- (b) Carrot
- (c) Sweet Potato
- (d) Radish

S72. Ans.(a)

Sol. The potato is a starchy, tuberous crop from the perennial nightshade *Solanum tuberosum*. The potato is not a root.

Q73. What is the rank of India in the Global Innovation Index 2018?

- (a) 62nd
- (b) 74th
- (c) 57th
- (d) 96th

S73. Ans.(c)

Sol. The Global Innovation Index (GII) has ranked India as the 57th most innovative nation in the world. The country has improved its ranking from 60th position last year.

Q74. "Yudh Abhyas" is a joint military exercise between which countries?

- (a) India and Australia
- (b) India and USA
- (c) India and Sri Lanka
- (d) India and Bangladesh

S74. Ans.(b)

Sol. India and United States joint military exercise Yudh Abhyas 2018 commenced at Chaubattia, Uttarakhand.

Q75. Which is nicknamed as "Dhing - Express"?

- (a) Jhulan Goswami
- (b) Dipa karmakar
- (c) Manpreet Kaur
- (d) Hima das

S75. Ans.(d)

Sol. Hima Das (born 9 January 2000), nicknamed the Dhing Express, is an Indian sprint runner from the state of Assam

Q76. National Hindi Diwas is celebrated on

- (a) 18th September
- (b) 6th July
- (c) 14th October
- (d) 14th September

S76. Ans.(d)

Sol. National Hindi Diwas is celebrated every year on September 14. On that day in 1949, the constituent assembly adopted Hindi, written in Devanagari script, as the official language of the Union.

Q77. The first tribal circuit project under swadesh darshan scheme is launched in which state?

- (a) Madhya Pradesh
- (b) Odisha
- (c) Chhattisgarh
- (d) Jharkhand

S77. Ans.(c)

Sol. Union Ministry of Tourism has inaugurated India's first tribal circuit project connecting 13 tourism sites in Chhattisgarh under Swadesh Darshan Scheme.

Q78. The Headquarters of Food and Agriculture Organization is at

- (a) Rome
- (b) London
- (c) Washington
- (d) None of the above

S78. Ans.(a)

Sol. The FAO Headquarters is located in the city centre of Rome, near the Circo Massimo.

Q79. Which is the first country to develop document on "cooling action plan"?

- (a) Japan
- (b) China
- (c) France
- (d) India

S79. Ans.(d)

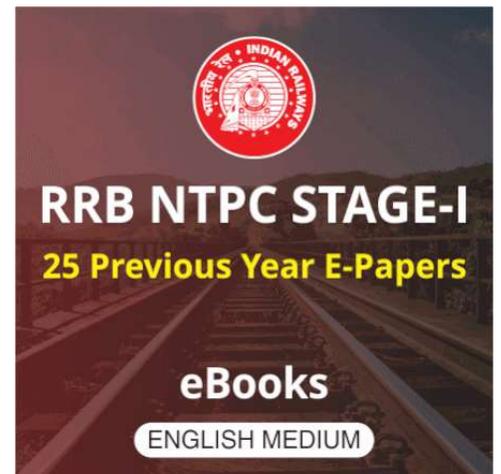
Sol. India is the first country in world to develop document on cooling action plan. Union Ministry of Environment, Forests and Climate Change (MoEFCC) on eve of World Ozone Day (16th September) released draft India Cooling Action Plan (ICAP). It makes India first country in world to develop such document.

Q80. During which dynasty, Mahaballipuram temple was constructed?

- (a) Gupta Dynasty
- (b) Pallava Dynasty
- (c) Chola Dynasty
- (d) Chalukya Dynasty

S80. Ans.(b)

Sol. The temples of Mamallapuram, portraying events described in the Mahabharata, were built during the reign of the Pallava dynasty. Most of the temples were built largely during the reigns of Narasimha varman and his successor Rajasimhavarman. The city of Mahabalipuram was largely developed by the Pallava king Narasimhavarman I in the 7th century AD.



Q81. In which mountain series Kodaikanal is situated?

- (a) Annamallai Hills
- (b) Shevray Hills
- (c) Nilgiri Hills
- (d) Palani Hills

S81. Ans.(d)

Sol. Kodaikanal, referred to as the “Princess of Hill stations,” is a city in the hills of Dindigul district in Tamil Nadu. It sits on a plateau above the southern escarpment of the upper Palani Hills at 2,133 metres, between the Parappar and Gundar Valleys. These hills form the eastward spur of the Western Ghats on the Western side of South India.

Q82. Tropical grasslands with tall grasses are found mainly in

- (a) South America
- (b) Africa
- (c) Central America
- (d) Australia

S82. Ans.(b)

Sol. Tropical Savanna grasslands of Africa are dominated by grasses, often 3 to 6 feet tall at maturity.

Q83. The Strait of Malacca separates

- (a) Sumatra and Malaysia
- (b) Java and Brunei
- (c) Sumatra and Java
- (d) Malaysia and Brunei

S83. Ans.(a)

Sol. The Strait of Malacca separates Malaysia and Sumatra.

Q84. In which language were the Buddhist literary works generally written?

- (a) Prakrit
- (b) Pali
- (c) Nepalese
- (d) Sanskrit

S84. Ans.(b)

Sol. Buddhist literary works generally written as Pali.

Q85. Angkor wat temple is located

- (a) Cambodia
- (b) Thailand
- (c) Vietnam
- (d) India

S85. Ans.(a)

Sol. Angkor wat is a temple complex in Cambodia and the largest religious monument in the world, on a site measuring 162.6 hectares. It was originally constructed as a Hindu temple of god Vishnu for the Khmer Empire, gradually transforming into a Buddhist temple towards the end of the 12th century.

Q86. "Dhamek Stupa" is located at which of the following places?

- (a) Bodh Gaya
- (b) Sarnath
- (c) Sanchi
- (d) Kaushambi

S86. Ans.(b)

Sol. Dhamek Stupa is a massive stupa located at Sarnath, 13 km away from Varanasi in the state of Uttar Pradesh.

Q87. Mahabharata was also known as

- (a) Brihat Katha
- (b) Rajatarangini
- (c) Jaya Samhita
- (d) Purana

S87. Ans.(c)

Sol. The Mahabharata is one of the major Sanskrit epics of ancient India. The Mahabharata is an epic narrative of the Kurukṣetra War and the fates of the Kaurava and the Paṇḍava princes. It also contains philosophical and devotional material. The Mahabharata is the longest epic poem known and has been described as "the longest poem ever written."

Q88. The 'Cabinet Mission' of 1946 was led by

- (a) Lord Linlithgow
- (b) Lord Mountbatten
- (c) Sir Pethick Lawrence
- (d) Sir Mountford

S88. Ans.(c)

Sol. Cabinet Mission of 1946 to India aimed to discuss and plan for the transfer of power from the British government to Indian leadership to provide India with independence. Formulated at the initiative of Clement Attlee, the Prime Minister of the United Kingdom, the mission had Lord Pethick Lawrence, Sir Stafford Cripps and A. V. Alexander.

Q89. Who was the Guru of the music maestro Tansen?

- (a) Bisaldev
- (b) Haridas
- (c) Saint Gyaneshwar
- (d) Ramanuj

S89. Ans.(b)

Sol. Tansen was one of the 'Navratna' (nine gems) at the court of the Mughal Emperor Akbar. He was born in Gwalior as a son of Mukund Misra, who was a poet. As a young child he learnt music from the legendary teacher of his time, Haridas Swami.

**RRB NTPC 2019
PRIME PACKAGE**

100 + TOTAL TESTS

- 40 Full Length Mocks
- 30 Section Wise Tests
- 10 Previous Years papers
- 20 + Topic Wise tests
- eBooks

BILINGUAL

Q90. Who among following English physicist is related the 'Big Bang Theory'?

- (a) Albert Einstein
- (b) Michael Skube
- (c) George Gamow
- (d) Roger Penrose

S90. Ans.(c)

Sol. George Gamow was a Soviet-American theoretical physicist cosmologist. He was an early theoretical physicist cosmologist. He was an early advocate and developer of Lemaitre's Big Bang Theory.

Q91. Who invented and first patented DYNAMITE?

- (a) J. R. Gluber
- (b) A. Nobel
- (c) G. Fawks
- (d) W. Bickford

S91. Ans.(b)

Sol. Alfred Nobel patented dynamite in 1876. Nobel left \$9 million in his will to be used as awards for people whose work benefit humanity.

Q92. The main page of a Web site is known as

- (a) Home page
- (b) Book mark page
- (c) Content page
- (d) Navigator page

S92. Ans.(a)

Sol. A home page or a start page is the initial or main web page of a website or a browser. The initial page of a website is sometimes called main page.

Q93. What is the full form of PDF

- (a) Printed Document Format
- (b) Public Document Format
- (c) Portable Document Format
- (d) Published Document Forma

S93. Ans.(c)

Sol. PDF is Portable Document Format. It is a file format developed in the 1990s to present documents, including text formatting and images, in a manner independent of application software, hardware, and operating systems.

Q94. Which of the following rays has the shortest wavelength?

- (a) X-rays
- (b) Gamma rays
- (c) Ultraviolet rays
- (d) Radio waves

S94. Ans.(b)

Sol. The electromagnetic spectrum includes, from longest wavelength to shortest: radio waves, microwaves, infrared, visible, ultraviolet, X-rays, and gamma-rays.

Q95. Which of these American astronomers discovered Pluto in 1930?

- (a) Galileo Galilei
- (b) Harlow Shapley
- (c) Clyde Tombaugh
- (d) Edwin Hubble

S95. Ans.(c)

Sol. Clyde William Tombaugh was an American astronomer. He discovered Pluto in 1930.

Q96. There were five categories in Nobel Prizes in beginning. Which among the following is the sixth which was added later?

- (a) Economics
- (b) Peace
- (c) Medical Science
- (d) Literature

S96. Ans.(a)

Sol. The will of the Swedish inventor Alfred Nobel established the prizes in 1895. The prizes in Physics, Chemistry, Physiology or medicine, Literature, and Peace were first awarded in 1901. The related Nobel Memorial Prize in Economic Sciences was created in 1968.

Q97. The first oil refinery was established at-

- (a) Barauni
- (b) Digboi
- (c) Vishakhapatanam
- (d) Mumbai

S97. Ans.(b)

Sol. India (and Asia) obtained its first refinery in Digboi in the year 1901. It is located in Tinsukia district of Assam. Today, though the crude production is not high, Digboi has the distinction of being India's oldest continuously producing oilfield. It is now a division of Indian Oil Corporation.

Q98. Which Constitutional Amendment Act gave constitutional recognition to municipalities?

- (a) 72nd Constitutional Amendment Act
- (b) 73rd Constitutional Amendment Act
- (c) 74th Constitutional Amendment Act
- (d) 75th Constitutional Amendment Act

S98. Ans.(c)

Sol. 74th constitutional amendment act gave constitutional recognition to municipalities.

Q99. Which Part of Indian Constitution deals with Centre-State financial relations?

- (a) Part X
- (b) Part VIII
- (c) Part XII
- (d) Part XX

S99. Ans.(c)

Sol. The Indian Constitution has elaborate provisions regarding the distribution of revenues between Article 268 to 293 in Part XII deal with the financial relations.

Q100. Which among the following is key faunal species that is being conserved and monitored in 'Dachigam National Park'?

- (a) Musk Deer
- (b) Golden Oriole
- (c) Yellow-throated Marten
- (d) Hangul or Kashmir Stag

S100. Ans.(d)

Sol. Dachigam National Park is located 22 kilometers from Srinagar, Jammu and Kashmir. It covers an area of 141 square kilometers. The main animal species that Dachigam is most famous for is the Hangul, or the Kashmir Stag.

