

VIDEO COURSES

for Government Exams



From the oldest and most trusted name in Exam Preparation which gave us Career Power, Banker-sadda, Scsadda, here is the latest offering – Video Courses that are tailor-made for the Govt. Job aspirants of digital India. Various banking and SSC exams are conducted online with regular changes to exam pattern and level of questions. We understand the changing needs of the students and have devised a unique solution, making preparation easy, cost-effective and efficient.

Video courses for Banking and SSC consist of exhaustive video lectures for government exams. We offer these courses in three variants: Online Streaming, SD Card and Android Tab + SD-Card. The SD Card can be run on your personal android device as well. The video courses will run on the Adda247 mobile app, the number one App for Bank and SSC exam preparation.



Video Course are available in



ONLINE
STREAMING



MICRO SD
CARD



ANDROID TAB
(SD Card Included)

Available Courses

Banking Courses

▶ IBPS PO Pre

▶ IBPS PO Complete Kit

▶ RRB Mains Complete Kit

▶ IBPS PO Pre + Mains

▶ IBPS PO: Quantitative Aptitude

▶ IBPS RRB Pre - Quant + Reasoning

SSC Courses

▶ Maths for SSC CGL Mains

▶ English + Maths for SSC CGL Mains

▶ English for SSC CGL Mains

▶ IB ACIO (Tier I) + SSC Complete KIT

To Purchase visit : store.adda247.com

For any query : Call us at +91-90691 42412 • Email us at elarning@adda247.com

Adda247 Android App



Solutions

Solutions (1-5):

L and N attended the seminar on 6th of July and 13th of November respectively. O attended the party on 6th of the month which has only 30 days. So from this there can be two possible cases:-

Case:1- O can attend a marriage party on 6th September.

Month↓ / Date→	6 th	13 th
January (31)		
July (31)	L	
September (30)	O	
November (30)		N

Case:2- O can attend a marriage party on 6th November.

Month↓ / Date→	6 th	13 th
January (31)		
July (31)	L	
September (30)		
November (30)	O	N

There are four friends have attended party between O and K. But in case-1 there is no place left for K, so case-1 has been eliminated. Now proceeding with case-2, K will attend the marriage party on 13th January.

Case:2- O can attend a marriage party on 6th November.

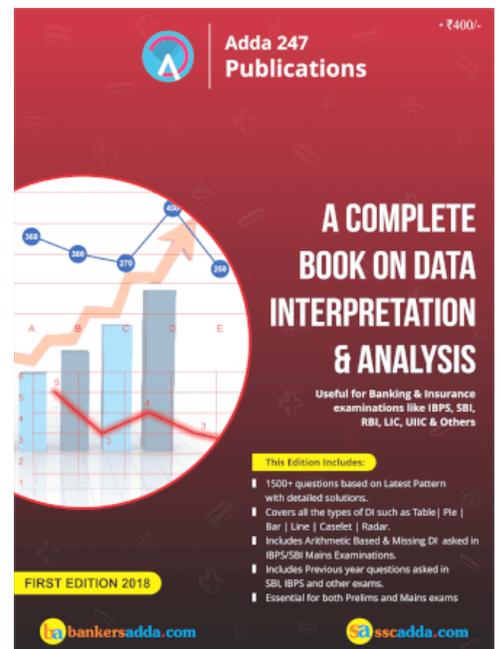
Month↓ / Date→	6 th	13 th
January (31)		K
July (31)	L	
September (30)		
November (30)	O	N

The number of persons attended party between L and O is the same as the number of persons attended party between J and N. So, J will attend the marriage party on 13th July.

Case:2- O can attend a marriage party on 6th November.

Month↓ / Date→	6 th	13 th
January (31)		K
July (31)	L	J
September (30)		
November (30)	O	N

M and L attended party in the same date, but M attended before L. So, M will attend the party on 6th January. Q attended party before P. So, Q attend the party 6th September and P attend the party on 13th September. So, the final arrangement is-



Case:2- The one who likes Uranus lives on 4th floor.

Floor	Person	Planet
8		
7		Earth
6	P	
5		
4		Uranus
3		
2		
1		

No one lives between P and Q. So, Q can live immediate above or below P. And we get four possible cases.

Case:1(a)- The one who likes Uranus lives on 2nd floor. And Q lives immediately above P.

Floor	Person	Planet
8		
7		
6		
5	Q	Earth
4	P	
3		
2		Uranus
1		

Case:1(b)- The one who likes Uranus lives on 2nd floor. And Q lives immediately below P.

Floor	Person	Planet
8		
7		
6		
5		Earth
4	P	
3	Q	
2		Uranus
1		

Case:2(a)- The one who likes Uranus lives on 4th floor. And Q lives immediately above P.

Floor	Person	Planet
8		
7	Q	Earth
6	P	
5		
4		Uranus
3		
2		
1		

Case:2(b)- The one who likes Uranus lives on 4th floor. And Q lives immediately below P.

Floor	Person	Planet
8		
7		Earth
6	P	
5	Q	
4		Uranus
3		
2		
1		

E like Saturn. E lives on an odd number floor but lives immediately above D. Now from this there are two possible places for E in case-1(a) and case-2(a). So all the possibilities are shown below-

Case:1(a1)- The one who likes Uranus lives on 2nd floor. And Q lives immediately above P. And E lives on 7th floor.

Floor	Person	Planet
8		
7	E	Saturn
6	D	
5	Q	Earth
4	P	
3		
2		Uranus
1		

Case:1(a2)- The one who likes Uranus lives on 2nd floor. And Q lives immediately above P. And E lives on 3rd floor.

Floor	Person	Planet
8		
7		
6		
5	Q	Earth
4	P	
3	E	Saturn
2	D	Uranus
1		

Case:1(b)- The one who likes Uranus lives on 2nd floor. And Q lives immediately below P. And E lives on 7th floor.

Floor	Person	Planet
8		
7	E	Saturn
6	D	
5		Earth
4	P	
3	Q	
2		Uranus
1		

Case:2(a1)- The one who likes Uranus lives on 4th floor. And Q lives immediately above P. And E lives on 5th floor.

Floor	Person	Planet
8		
7	Q	Earth
6	P	
5	E	Saturn
4	D	Uranus
3		
2		
1		



CAREER POWER™
AN IIT/IIM ALUMNI COMPANY



SBI PO 2018
COMBO (PRE+MAINS)
With Video Solutions

Vacancies - 2000

75 TOTAL TEST

- 20 PRE + 10 MAINS MOCKS
- 45 PRACTICE SETS

Bilingual

Case:2(a2)- The one who likes Uranus lives on 4th floor. And Q lives immediately above P. And E lives on 3rd floor.

Floor	Person	Planet
8		
7	Q	Earth
6	P	
5		
4		Uranus
3	E	Saturn
2	D	
1		

Case:2(b)- The one who likes Uranus lives on 4th floor. And Q lives immediately below P. And E lives on 3rd floor.

Floor	Person	Planet
8		
7		Earth
6	P	
5	Q	
4		Uranus
3	E	Saturn
2	D	
1		

There are four person living between M and K. D does not live on fourth floor. K lives below M. So, from this case-1(b), 2(a2) and 2(b) has been eliminated as no place left for M and K in these cases. Now proceeding with the remaining cases:

Case:1(a1)- The one who likes Uranus lives on 2nd floor. And Q lives immediately above P. And E lives on 7th floor. M lives on 8th floor and K lives on 3rd floor.

Floor	Person	Planet
8	M	
7	E	Saturn
6	D	
5	Q	Earth
4	P	
3	K	
2		Uranus
1		

Case:1(a2)- The one who likes Uranus lives on 2nd floor. And Q lives immediately above P. And E lives on 3rd floor. M lives on 6th floor and K lives on 1st floor.

Floor	Person	Planet
8		
7		
6	M	
5	Q	Earth
4	P	
3	E	Saturn
2	D	Uranus
1	K	

Case:2(a1)- The one who likes Uranus lives on 4th floor. And Q lives immediately above P. And E lives on 5th floor. M lives on 8th floor and K lives on 3rd floor.

Floor	Person	Planet
8	M	
7	Q	Earth
6	P	
5	E	Saturn
4	D	Uranus
3	K	
2		
1		

The person who likes Mars lives immediate below S. S does not live on top floor.

Case:1(a1)- The one who likes Uranus lives on 2nd floor. And Q lives immediately above P. And E lives on 7th floor. M lives on 8th floor and K lives on 3rd floor. S lives on 2nd floor.

Floor	Person	Planet
8	M	
7	E	Saturn
6	D	
5	Q	Earth
4	P	
3	K	
2	S	Uranus
1		Mars

Case:1(a2)- The one who likes Uranus lives on 2nd floor. And Q lives immediately above P. And E lives on 3rd floor. M lives on 6th floor and K lives on 1st floor. S lives on 7th floor.

Floor	Person	Planet
8		
7	S	
6	M	Mars
5	Q	Earth
4	P	
3	E	Saturn
2	D	Uranus
1	K	

Case:2(a1)- The one who likes Uranus lives on 4th floor. And Q lives immediately above P. And E lives on 5th floor. M lives on 8th floor and K lives on 3rd floor. S lives on 2nd floor.

Floor	Person	Planet
8	M	
7	Q	Earth
6	P	
5	E	Saturn
4	D	Uranus
3	K	
2	S	
1		Mars

The person who likes Neptune does not live on fourth floor. There are only two persons living between the persons who likes Mercury and Neptune.

Case:1(a1)- The one who likes Uranus lives on 2nd floor. And Q lives immediately above P. And E lives on 7th floor. M lives on 8th floor and K lives on 3rd floor. S lives on 2nd floor.

Floor	Person	Planet
8	M	
7	E	Saturn
6	D	Mercury/Neptune
5	Q	Earth
4	P	
3	K	Mercury/Neptune
2	S	Uranus
1		Mars



Case:1(a2)- The one who likes Uranus lives on 2nd floor. And Q lives immediately above P. And E lives on 3rd floor. M lives on 6th floor and K lives on 1st floor. S lives on 7th floor.

Floor	Person	Planet
8		
7	S	Neptune/
6	M	Mars
5	Q	Earth
4	P	Mercury
3	E	Saturn
2	D	Uranus
1	K	Neptune/

Case:2(a1)- The one who likes Uranus lives on 4th floor. And Q lives immediately above P. And E lives on 5th floor. M lives on 8th floor and K lives on 3rd floor. S lives on 2nd floor.

Floor	Person	Planet
8	M	
7	Q	Earth
6	P	Mercury/Neptune
5	E	Saturn
4	D	Uranus
3	K	Mercury/Neptune
2	S	
1		Mars

The person who likes Venus lives below the person who likes Earth. The number of persons who live between Q and Venus is the same of the number of persons who live between the one who likes Jupiter and P. S does not like Venus. From this case-1(a1), 2(a1) will be eliminated as no place left for Venus and Jupiter according to the given condition. Rest with case-1(a2) K likes Venus, and A who lives on 8th floor likes Jupiter. So, the final solution is----

Floor	Person	Planet
8	A	Jupiter
7	S	Neptune
6	M	Mars
5	Q	Earth
4	P	Mercury
3	E	Saturn
2	D	Uranus
1	K	Venus

S8. Ans. (b)

S9. Ans. (d)

S10. Ans. (c)

S11. Ans. (b)

S12. Ans. (c)

S13. Ans. (e)

Sol. $<$, \leq

S14. Ans. (c)

Sol. The given number- 67493452

New number obtained- 67771752

S15. Ans. (d)

Sol. Step 1: From the given conditions, the carton having Pencil is at the bottom of the stack. Carton L neither contain Pencil nor placed just above the carton which contains pencil. Only one carton is placed between L and M. Carton which contains flowers is kept immediate above M. So, from these conditions there will be two possible cases,

Case I

CARTONS	OBJECTS
L	
M	Pencil

Case II

CARTONS	OBJECTS
L	
M	
	Pencil

Step 2: Using the remaining conditions, carton which contains flowers is kept immediate above M. Only one carton is kept between carton of flower and carton of Locks. So, case II will be eliminated as there is no place for carton which contains locks.

Case I

CARTONS	OBJECTS
	Locks
L	
	Flowers
M	Pencil

Case II

CARTONS	OBJECTS
L	
	Flowers
M	
	Pencil



Step 3: Continuing with Case I, Carton O does not contain flower. Carton O contains locks, carton N contains Flower and carton L contains Bags. Hence, we get our final arrangement,

Case I

CARTONS	OBJECTS
O	Locks
L	Bags
N	Flowers
M	Pencil

S16. Ans. (d)

Sol. Step 1: From the given conditions, the carton having Pencil is at the bottom of the stack. Carton L neither contain Pencil nor placed just above the carton which contains pencil. Only one carton is placed between L and M. Carton which contains flowers is kept immediate above M. So, from these conditions there will be two possible cases,

Case I

CARTONS	OBJECTS
L	
M	Pencil

Case II

CARTONS	OBJECTS
L	
M	
	Pencil

Step 2: Using the remaining conditions, carton which contains flowers is kept immediate above M. Only one carton is kept between carton of flower and carton of Locks. So, case II will be eliminated as there is no place for carton which contains locks.

Case I

CARTONS	OBJECTS
	Locks
L	
	Flowers
M	Pencil

Case II

CARTONS	OBJECTS
L	
	Flowers
M	
	Pencil

Step 3: Continuing with Case I, Carton O does not contain flower. Carton O contains locks, carton N contains Flower and carton L contains Bags. Hence, we get our final arrangement,

Case I

CARTONS	OBJECTS
O	Locks
L	Bags
N	Flowers
M	Pencil

S17. Ans.(c)

Sol.

The code for news is 'mn'.

WORDS	CODES
makes	kr
money	lo
news	mn
expected/paisa	Ve/pr
Box/pencil	Me/qi

S18. Ans. (d)

Sol.

I. $R = H$ (False) II. $R > H$ (False)

S19. Ans. (c)

Sol.

I. $F = R$ (False) II. $B < N$ (True)

S20. Ans. (a)

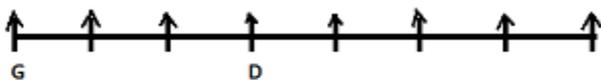
Sol.

I. $K < W$ (False) II. $H > M$ (False)

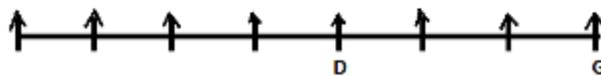
Solutions (21-25):

Step 1: From the given conditions, G sits one of the extreme ends of the row. Only two persons sit between D and G. So, there will be two possible cases in which G sits either on the left end or at the right end of the row.

CASE 1

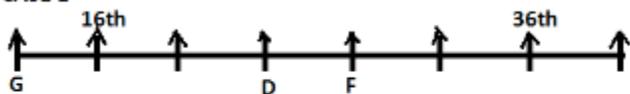


CASE 2

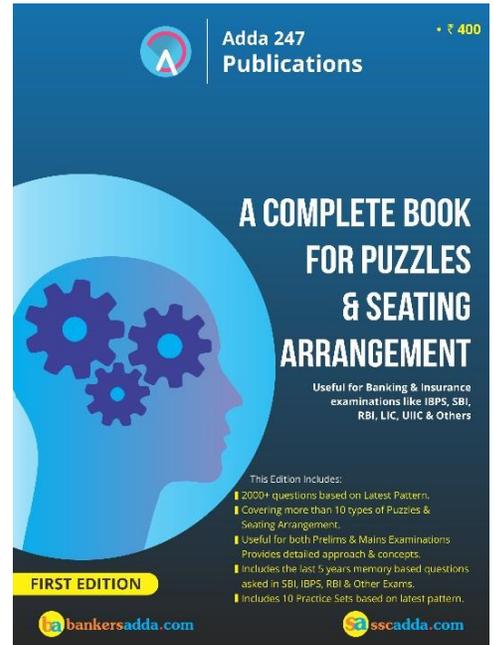
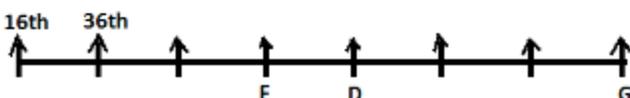


Step 2: Now, only two persons sit between the person, who stays on 36th floor and D. Neither G nor B stays on 36th floor. Only one person sits between F and the person, who stays on 36th floor. The person, who stays on 16th floor, sits third to the left of F.

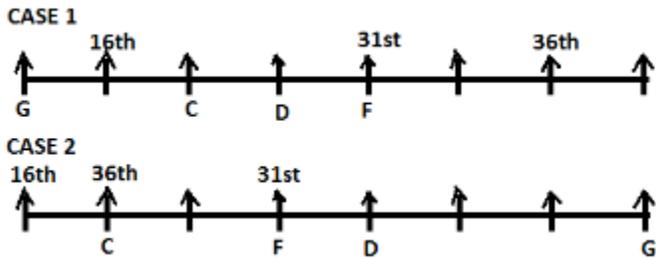
CASE 1



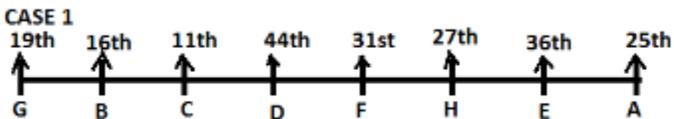
CASE 2



Step 3: As it is given that, Difference of floors in which F and A stays is 6. F stays on that floor which is above floor A. F stays on prime number floor. So, A stays on 25th floor and F stays on 31st floor. Person, who stays on 16th floor, sits immediate left of C.



Step 4: From the remaining conditions, H sits on the left of A and does not stay on 36th floor. Neither C nor H is an immediate neighbour of G. A is neither immediate neighbour of H nor C. More than one person sits between C and H. From these statements case 2 will be eliminated. Now, the difference of floor number of B and H is floor number of one of the eight persons. B lives below H. D stays on that floor which is not a prime number. G stays on that floor which is above C. So, B stays on the 16th floor, H stays on 27th floor and G stays on 19th floor and C stays on 11th floor of the building. Hence, we get our final solution,



- S21. Ans. (b)
- S22. Ans. (d)
- S23. Ans. (c)
- S24. Ans. (c)
- S25. Ans. (b)

S26. Ans. (c)

Sol. Step 1: From the given conditions, Basket S contains less number of flowers than only two baskets. Basket P contains more number of flowers than basket R but less than basket U. Basket R does not contain least number of flowers. So, there will be two possible cases,

Case I

$U > S > P > R >$

Case II

$U > S > P > R >>$

Step 2: Now, Basket U contains less number of flowers than Basket Q. So, case II will be eliminated. Continuing with case I, The basket which contain third lowest number of flowers contain 21 flowers. So basket P contains 21 flowers and basket T contains least number of flowers.

Case I

$Q > U > S > P(21) > R > T$

Number of flowers basket Q contains = $(113-21) = 92$.



S27. Ans. (d)

Sol. Step 1: From the given conditions, Basket S contains less number of flowers than only two baskets. Basket P contains more number of flowers than basket R but less than basket U. Basket R does not contain least number of flowers. So, there will be two possible cases,

Case I

> U > S > P > R >

Case II

U > S > P > R >>

Step 2: Now, Basket U contains less number of flowers than Basket Q. So, case II will be eliminated. Continuing with case I, The basket which contain third lowest number of flowers contain 21 flowers. So basket P contains 21 flowers and basket T contains least number of flowers.

Case I

Q > U > S > P(21) > R > T

Solutions (28-32):

Step 1: From the given conditions, E is the oldest person. F was born after 1978 but not born in 1995. Sum of present age of F and A is 81yr. So, there will be two possible cases in which F is either born in 1982(then A is born in the year1971) or in 1999(then A is born in the year 1954).

Case I

YEAR (age in yrs)	Person
1950 (67)	E
1954 (63)	
1962 (55)	
1971 (46)	A
1978 (39)	
1982 (35)	F
1995 (22)	
1999 (18)	

Case II

YEAR (age in yrs)	Person
1950 (67)	E
1954 (63)	A
1962 (55)	
1971 (46)	
1978 (39)	
1982 (35)	
1995 (22)	
1999 (18)	F

Step 2: As it is given that, Difference of present ages of A and H is less than nine. B was born in odd number year after H, but not born in 1995.

Case I

YEAR (age in yrs)	Person
1950 (67)	E
1954 (63)	
1962 (55)	
1971 (46)	A
1978 (39)	H
1982 (35)	F
1995 (22)	
1999 (18)	B

Case II

YEAR (age in yrs)	Person
1950 (67)	E
1954 (63)	A
1962 (55)	H
1971 (46)	B
1978 (39)	
1982 (35)	
1995 (22)	
1999 (18)	F

Step 3: Using the rest of the conditions, Sum of present age of D and G is 61yr. D is younger than G. So, from these statement cases I will be eliminated. Now continuing with case II, G was born in the year 1978 and D in the year 1995 and C was born in the year 1982. Hence, we get our final solution.

Case II

YEAR (age in yrs)	Person
1950 (67)	E
1954 (63)	A
1962 (55)	H
1971 (46)	B
1978 (39)	G
1982 (35)	C
1995 (22)	D
1999 (18)	F

S28. Ans. (c)

S29. Ans. (d)

S30. Ans. (b)

S31. Ans. (c)

S32. Ans. (e)



SBI JUNIOR ASSOCIATES 2018
PRELIMS

With Video Solution

35 TOTAL TEST

- 20 FULL LENGTH MOCKS
- 15 PRACTICE SETS

Bilingual

S33. Ans. (e)

Sol. Detailed solution.

Step 1: From the given conditions, Q attend seminar before Wednesday. Two persons attend seminar between Q and S. There will two possible cases,

WEEK	CASE I	CASE II
DAYS	Person	Person
Monday		Q
Tuesday	Q	
Wednesday		
Thursday		S
Friday	S	

Step 2: From the remaining conditions, P attends seminar immediate before S, but not attend on Wednesday. So, from these statement case II will be eliminated,

WEEK	CASE I	CASE II
DAYS	Person	Person
Monday		Q
Tuesday	Q	
Wednesday		P
Thursday	P	S
Friday	S	

Step 3: Using the remaining conditions given, R attend seminar after T. Hence, we get our final answer,

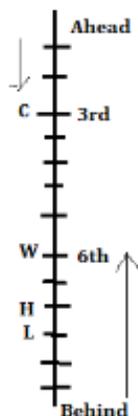
WEEK	CASE I
DAYS	Person
Monday	T
Tuesday	Q
Wednesday	R
Thursday	P
Friday	S

S34. Ans. (d)

Sol. $Z = K < C = R \leq M$

S35. Ans. (a)

Sol.



S36. Ans.(b)

Sol.

$$\text{Total S.I.} = \frac{1800 \times 2 \times 20}{100} = \text{Rs. } 720$$

$$\text{Total C.I.} = (1800 - P) \left[\left(1 + \frac{30}{100}\right)^2 - 1 \right]$$

$$= (1800 - P) \times \frac{69}{100}$$

$$\text{ATQ, } (1800 - P) \times \frac{69}{100} - 720 = 315$$

$$\text{or, } (1800 - P) = \frac{100}{69} \times 1035$$

$$\text{or, } 1800 - P = 1500$$

$$\Rightarrow P = 300$$

S37. Ans.(a)

Sol. Let their initial investments be $7x$, $5x$ and $3x$ respectively

$$\text{Ratio of their profit} = 7x \times 6 + 3x \times 6 : 5x \times 12 : 3x \times 12$$

$$= 60x : 60x : 36x$$

$$= 15 : 15 : 9$$

$$\text{A's profit} = 3600 \times \frac{39}{9} \times \frac{15}{39}$$

$$= \text{Rs. } 6000$$

S38. Ans.(c)

Sol.

$$\text{Let, CP of B be } x + 120$$

$$\text{And that of A be } x$$

$$\text{Then, } \frac{25}{100} \times x + \frac{40}{100} (x + 120) = 178$$

$$\text{or, } \frac{65x}{100} + 48 = 178$$

$$\text{or, } x = 200$$

$$\text{C.P. of B} = x + 120 = \text{Rs. } 320$$

S39. Ans.(d)

Sol.

$$\text{Let, age of A be 'x' years,}$$

$$\text{Then age of B} = 'x + 10' \text{ years}$$

$$\text{And age of C} = 3x \text{ years}$$




SBI JUNIOR ASSOCIATES 2018
COMBO

With Video Solution

65 TOTAL TEST

- 30 FULL LENGTH MOCKS
- 35 PRACTICE SETS

Bilingual

$$\text{ATQ } \frac{x+10+11}{3x} = \frac{3}{2}$$

$$\text{or, } (x + 21)2 = 9x$$

$$\text{or, } 7x + 42$$

$$\Rightarrow x = 6$$

$$\text{Age of C after 7 years} = 3x + 7 = 18 + 7 = 25 \text{ years}$$

S40. Ans.(d)

Sol.

$$\frac{2\pi rh}{\pi r^2 h} = \frac{4}{7}$$

$$\text{or, } \frac{2}{r} = \frac{4}{7}$$

$$\text{or, } r = \frac{7}{2}$$

$$\text{also, } \frac{2r}{h} = \frac{14}{5}$$

$$\Rightarrow h = \frac{5}{2}$$

$$\text{Total surface area} = 2 \times \frac{22}{7} \times \frac{7}{2} \left(\frac{7}{2} + \frac{5}{2} \right)$$

$$= 22 \times \frac{12}{2}$$

$$= 132$$



S41. Ans.(b)

Sol. Sum can be odd in two cases:

1. First card is odd numbered & second one is even.

2. First card is even numbered & second one is odd.

$$\begin{aligned} \text{Required probability} &= \frac{13}{25} \times \frac{12}{24} + \frac{12}{25} \times \frac{13}{24} \\ &= \frac{13}{25} \end{aligned}$$

S42. Ans.(c)

Sol.

$$\text{ATQ } \frac{D-11}{2x} = \frac{4D}{16x}$$

$$\text{or, } D = 22 \text{ km}$$

$$\text{also, } \frac{D-2}{2} = 2x$$

$$\text{or, } D - 2 = 4x$$

$$\text{or, } x = 5$$

$$\text{Speed of boat} = 9x = 45 \text{ kmph}$$

S43. Ans.(b)

Sol. Let, C takes x days to complete the work alone

Then, B takes $\frac{x}{3}$ days to complete the work alone

$$\frac{1}{x} + \frac{3}{x} = \frac{1}{12}$$

or, $x = 48$ days

Suppose, A and B take 'y' days to complete the work together

Then, A takes $2y$ days to complete the work alone

$$\frac{1}{2y} + \frac{1}{16} = \frac{1}{y}$$

$$\text{or, } \frac{1}{2y} = \frac{1}{16}$$

or, $2y = 16$

Hence, A will take 16 days

S44. Ans.(a)

Sol. Money spent on brother = $\frac{1}{4} \times 68\% = 17\%$

Money spent on sister = $\frac{9}{17} \times 68\% = 36\%$

ATQ,

$(36\% - 17\%)$ of total = 3800

\Rightarrow Total = Rs. 20000

$$\text{Saving} = \frac{100 - (32 + 17 + 36)}{100} \times 20000$$

$$= \frac{15}{100} \times 20000$$

= Rs. 3000



S45. Ans.(c)

Sol.

$$\frac{x-2}{y+3} = \frac{3}{2}$$

$$\text{or, } 2x - 4 = 3y + 9$$

$$\text{or, } 2x - 3y = 13 \dots\dots\dots\text{(i)}$$

$$\frac{x-4}{y+7} = \frac{5}{3}$$

$$\text{or, } 3x - 12 = 5y + 35$$

$$\text{or, } 3x - 5y = 47 \dots\dots\dots\text{(ii)}$$

Solving (i) and (ii),

$$x = 89, y = -55$$

$$\text{Fraction} = \frac{-89}{55}$$

S46. Ans.(e)

Sol. $27 \times 2.5 + 1 = 68.5$

$\times 0.5 + 1, \times 1 + 1, \times 1.5 + 1, \times 2 + 1, \times 2.5 + 1$

S47. Ans.(b)

Sol.

$$\begin{array}{cccccc} 15 & 24 & 49 & 98 & 179 & 300 \\ \downarrow & \uparrow & \downarrow & \uparrow & \downarrow & \uparrow \\ 9 & 25 & 49 & 81 & 121 & \\ 3^2 & 5^2 & 7^2 & 9^2 & 11^2 & \end{array}$$

S48. Ans.(a)

Sol.

$\times 1 + 1, \times 2 + 2, \times 3 + 3, \times 4 + 4, \times 5 + 5$

S49. Ans.(d)

Sol.

$$\begin{array}{cccccc} 9 & 11 & 22 & 51 & 107 & 199 \\ \downarrow & \uparrow & \downarrow & \uparrow & \downarrow & \uparrow \\ 2 & 11 & 29 & 56 & 92 & \\ \downarrow & \uparrow & \downarrow & \uparrow & \downarrow & \uparrow \\ 9 & 18 & 27 & 36 & & \end{array}$$

S50. Ans.(b)

Sol.

$$\begin{array}{cccccc} 67 & 75 & 59 & 91 & 27 & 155 \\ \downarrow & \uparrow & \downarrow & \uparrow & \downarrow & \uparrow \\ 8 & -16 & 32 & -64 & 128 & \end{array}$$

S51. Ans.(a)

Sol. Total sales of company B in 2012 and that of company A in 2014 = $2500 + 4000 = 6500$

Total sales of company A in 2011 and that of company B in 2015 = $2000 + 4000 = 6000$

$$\text{Ratio} = \frac{6500}{6000} = \frac{13}{12}$$

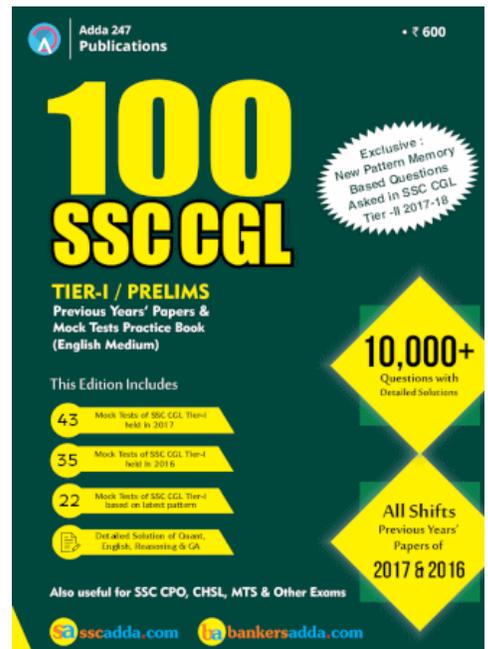
S52. Ans.(b)

Sol.

$$\text{Sales of company A in 2016} = 5000 \times \frac{120}{100} = 6000$$

$$\text{Sales of company B in 2016} = 4000 \times \frac{110}{100} = 4400$$

$$\text{Difference} = 6000 - 4400 = 1600$$



S53. Ans.(c)

Sol.

$$\text{Total sales in 2011} = 2000 + 1000 = 3000$$

$$\text{Total sales in 2015} = 5000 + 4000 = 9000$$

$$\text{Req.}\% = \frac{9000-3000}{3000} = 200\%$$

S54. Ans.(b)

Sol.

$$\begin{aligned} \text{Sales of company A from 2012 to 2014} &= 3500 + 4500 + 4000 \\ &= 12000 \end{aligned}$$

$$\begin{aligned} \text{Sales of company B from 2013 to 2015} &= 3000 + 4500 + 4000 \\ &= 3000 + 4500 + 4000 \\ &= 11500 \end{aligned}$$

$$\text{Difference} = 500$$

S55. Ans.(a)

Sol. Sales of company A in 2010 = $2000 \times \frac{3}{4} = 1500$

$$\text{Percentage \%} = \frac{5000 - 1500}{1500} \times 100$$

$$= \frac{3500}{1500} \times 100$$

$$= 233.33\%$$

S56. Ans.(a)

Sol. No. of male voters from district A and B = $\frac{30}{100} \times 350 + \frac{54}{100} \times 400$

$$= 105 + 216 = 321$$

$$\text{Total no. of female voters from E and D} = 250 \times \frac{54}{100} + 300 \times \frac{55}{100}$$

$$= 135 + 165 = 300$$

$$\text{Difference} = 321 - 300 = 21$$

S57. Ans.(b)

Sol. Average no. of voters from district, B, C and D = $\frac{400 + 370 + 250}{3}$

Male voters from D, E and F together

$$= 250 \times \frac{46}{100} + 300 \times \frac{45}{100} + 625 \times \frac{32}{100}$$

$$= 115 + 135 + 200 = 450$$

$$\text{Req. \%} = \frac{450 - 340}{450} \times 100 = 24.44\%$$

S58. Ans.(a)

Sol.

No. of male voters from district D and E

$$= 250 \times \frac{46}{100} + 300 \times \frac{45}{100}$$

$$= 115 + 135$$

$$= 250$$

No. of female voters from C, E and F

$$= 370 \times \frac{50}{100} + 300 \times \frac{55}{100} + 625 \times \frac{68}{100}$$

$$= 185 + 165 + 425$$

$$= 775$$

$$\text{Ratio} = \frac{250}{775} = \frac{10}{31}$$

S59. Ans.(d)

Sol.

$$\text{No. of female voters from F} = 625 \times \frac{68}{100} = 425$$

$$\text{No. of male voters from A} = \frac{350}{1} \times \frac{30}{100}$$

$$= 105$$

$$\text{Req.}\% = \frac{425-105}{105} \times 100$$

$$= 304.7\%$$

$$\approx 305\%$$

S60. Ans.(a)

Sol.

$$\text{No. of male voters from B} = 400 \times \frac{54}{100} = 216$$

$$\text{No. of male voters from E} = 300 \times \frac{45}{100} = 135$$

$$\text{No. of female voters from C} = 370 \times \frac{50}{100} = 185$$

$$\text{No. of female voters from A} = 350 \times \frac{70}{100} = 245$$

$$\text{Required ratio} = \frac{351}{430}$$



S61. Ans.(e)

Sol.

$$\begin{array}{l|l} \text{I. } 2x^2 - 4x - x + 2 = 0 & \text{II. } 2y^2 - 9y + 7 = 0 \\ \Rightarrow 2x(x-2) - 1(x-2) = 0 & \Rightarrow 2y^2 - 7y - 2y + 7 = 0 \\ \Rightarrow (2x-1)(x-2) = 0 & \Rightarrow y(2y-7) - 1(2y-7) = 0 \\ \Rightarrow x = \frac{1}{2}, 2 & \Rightarrow y = \frac{7}{2}, 1 \end{array}$$

∴ No relation

S62. Ans.(a)

Sol.

$$\begin{array}{l|l} \text{I. } 3x^2 + 3x + 4x + 4 = 0 & \text{II. } y^2 + 5y + 4y + 20 = 0 \\ \Rightarrow 3x(x+1) + 4(x+1) = 0 & \Rightarrow y(y+5) + 4(y+5) = 0 \\ \Rightarrow x = -1, -\frac{4}{3} & \Rightarrow y = -4, -5 \end{array}$$

∴ $x > y$

S63. Ans.(a)

Sol.

$$\begin{array}{l|l} \text{I. } 3x^2 + 3x + 2x + 2 = 0 & \text{II. } y^2 + 9y + 3y + 27 = 0 \\ \Rightarrow 3x(x+1) + 2(x+1) = 0 & \Rightarrow y(y+9) + 3(y+9) = 0 \\ \Rightarrow x = -1, -\frac{2}{3} & \Rightarrow y = -3, -9 \end{array}$$

∴ $x > y$

S64. Ans.(d)

Sol.

$$\begin{array}{l|l} \text{I. } x^2 - 5x - 2x + 10 = 0 & \text{II. } y^2 - 9y - 5y + 45 = 0 \\ \Rightarrow x(x-5) - 2(x-5) = 0 & \Rightarrow y(y-9) - 5(y-9) = 0 \\ \Rightarrow x = 2, 5 & \Rightarrow y = 9, 5 \end{array}$$

∴ $x \leq y$

S65. Ans.(b)

Sol.

$$\begin{array}{l|l} \text{I. } (x-16)(x-16) = 0 & \text{II. } y = \pm 16 \\ \Rightarrow x = 16 & \end{array}$$

∴ $x \geq y$

S66. Ans.(c)

Sol. $24 \times 15 \times 10 \approx 3600$

S67. Ans.(c)

Sol.

$$14\sqrt{x} + 53\sqrt{x} = \frac{67}{27} \times x$$

$$67\sqrt{x} = \frac{67}{27} \times x$$

$$\sqrt{x} = 27$$

$$x = 729$$

S68. Ans.(e)

Sol.

$$10 \times 37 + 7 \times 20 = 17 \times \sqrt{?}$$

$$\sqrt{?} = 30$$

$$? = 900$$

S69. Ans.(d)

Sol.

$$\approx 1900 \div 190 + 10 + ?^2 = 84$$

$$\text{Or, } ?^2 = 84 - 10 - 10 \text{ or, } ? = 8$$

S70. Ans.(c)

Sol.

$$\approx 40 \times 8 - 250 = ? - 63 \times 8$$

$$? = 574$$

S71. Ans. (c)

Sol. Refer the third paragraph of the passage, "In an open letter to the US president in September 2007, American professionals in cyber defense warned that "the critical infrastructure of the United States, including electrical power, finance, telecommunications, health care, transportation, water, defense, and the internet, is highly vulnerable to cyber attack. Fast and resolute mitigating action is needed to avoid national disaster." Hence (c) is the correct choice.

S72. Ans. (e)

Sol. Refer the fourth paragraph, "In 1941, the powerful Japanese navy used many resources to create damage thousands of miles away. Today, an individual hacker using malicious software can cause chaos in far-away places at little cost to himself. Moreover, the information revolution enables individuals to perpetrate sabotage with unprecedented speed and scope. The so-called "love bug virus, launched in the Philippines in 2000, is estimated to have cost billions of dollars in damage. Terrorists, too, can exploit new vulnerabilities in cyberspace to engage in asymmetrical warfare." Hence all the three statements are correct in context of the passage.



SBI PO 2018

COMBO (PRE+MAINS)

With Video Solutions

Vacancies - 2000

75 TOTAL TEST

• 20 PRE + 10 MAINS MOCKS

• 45 PRACTICE SETS

Bilingual



S73. Ans. (a)

Sol. Refer the 5th, 6th and 7th paragraphs. From these paragraphs it can be easily inferred that in all 3 cases, they failed to trace the attackers.

S74. Ans. (e)

Sol. Refer the 8th paragraph, "That job will not be easy, because much of the relevant infrastructure is not under direct government control..... major losses of information and value for our government programs typically aren't from spies..... hackers not only steal proprietary information, but go further and insert erroneous data and programs in communications hardware and software..." Hence all three statements are true in context of the passage.

S75. Ans. (d)

Sol. Refer the second last paragraph, "But deterrence requires a credible threat of response against an attacker. And that becomes much more difficult in a world where governments find it hard to tell where cyberattacks come from, whether from a hostile state or a group of criminals masking as a foreign government." Hence (d) is the correct option.

S76. Ans. (b)

Sol. Refer the last paragraph, "While an international legal code that defines cyber attacks more clearly, together with cooperation on preventive measures, can help, such arms-control solutions are not likely to be sufficient. Nor will defensive measures like constructing electronic firewalls and creating redundancies in sensitive systems." Hence (b) is the only incorrect statement among the given options.

S77. Ans. (b)

Sol. **Repercussion** means an unintended consequence of an event or action, especially an unwelcome one. Hence 'cause' is the word opposite in meaning to it.

S78. Ans. (e)

Sol. **Erroneous** means wrong; incorrect. Hence 'genuine' is the word opposite in meaning to it.

S79. Ans. (a)

Sol. **Murky** means obscure or morally questionable. Hence 'murky' and 'obscure' are similar in meanings.

S80. Ans. (c)

Sol. **Resilience** means the ability of a substance or object to spring back into shape; elasticity. Hence 'resilience' and 'flexibility' are similar in meanings.

S81. Ans.(d)

Sol. 'to comply with' is the correct usage. Comply with something means to conform to something.

S82. Ans.(e)

Sol. 'In lieu of' which means 'instead of' is correct and therefore no correction is required.

S83. Ans.(d)

Sol. 'With regard to' is a correct phrase as it means concerning to or with respect to.

S84. Ans.(d)

Sol. 'With the exception' is used for saying that someone or something is not included in what you are saying hence is correct.

Sol. 'In the near future' is correct. If you say that something will happen in the near future, you mean that it will happen quite soon.

S85. Ans.(a)

S86. Ans.(d)

Sol. 'Under the provisions of' is correct and means a clause in a legal instrument, a law, etc., providing for a particular matter; stipulation; provision.

S87. Ans.(b)

Sol. 'in view of' means 'because or as a result of' hence is the correct choice for the given sentence.

S88. Ans.(e)

Sol. There is no correction in the given statement as 'until such time as' means 'until the time when' in formal speaking.

S89. Ans. (d)

Sol. 'are set forth in' is the correct choice as set forth means "to explain something".

S90. Ans.(d)

Sol. 'In complete consonance with' is the correct choice as it means 'in agreement with'.

S91. Ans.(b)

S92. Ans.(e)

S93. Ans.(a)

S94. Ans.(d)

S95. Ans.(e)

S96. Ans.(c)

S97. Ans.(b)

S98. Ans.(b)

S99. Ans.(d)

S100. Ans.(c)



CAREER POWER
AN IIT/IIM ALUMNI COMPANY

बैंक ऑफ़ इंडिया
Bank of India

Credit Officer (JMGS I)

20 TOTAL TEST

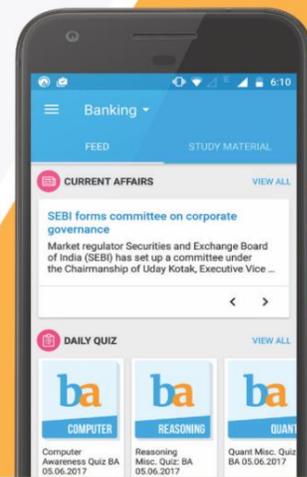
- 10 FULL LENGTH MOCKS
- 10 PRACTICE SETS



VIDEO COURSE

Compliment your classroom with Banking Video Courses
visit: videocourses.adda247.com

Study on the GO with the Adda247 App



Boost your prep with Topic-wise E-books and monthly Magazines
visit: store.adda247.com



Fulfill your Dream of **Government Job** visit: careerpower.in