

All India MAHA Mock IBPS Clerk Pre (Solutions)

S1. Ans.(c)

Sol.

Only two person lives between D and E. D lives on an odd number floor. Only one person sits between C and D. Only two person sits between C and F.

	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6
Floor	Persons	Persons	Persons	Persons	Persons	Persons
7	D		C			
6		F		E	E	F
5	C	D	D	C		
4	E		F		F	E
3		C		D	D	C
2	F	E	E	F		
1					C	D

Only two persons lives between G and F. So, from this statement Case 1, case 2, case 4 and case 6 gets eliminated. More than Three person lives between G and A.

	Case 3	Case 5
Floor	Persons	Persons
7	C	G
6	A	E
5	D	
4	F	F
3		D
2	E	A
1	G	C

B lives one of the floor below A. So, case 5 gets eliminated and we get our final arrangement.

	Case 3
Floor	Persons
7	C
6	A
5	D
4	F
3	B
2	E
1	G

S2. Ans.(d)

Sol.

Only two person lives between D and E. D lives on an odd number

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floor. Only one person sits between C and D. Only two person sits between C and F.

	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6
Floor	Persons	Persons	Persons	Persons	Persons	Persons
7	D		C			
6		F		E	E	F
5	C	D	D	C		
4	E		F		F	E
3		C		D	D	C
2	F	E	E	F		
1					C	D

Only two persons lives between G and F. So, from this statement Case 1, case 2, case 4 and case 6 gets eliminated. More than Three person lives between G and A.

	Case 3	Case 5
Floor	Persons	Persons
7	C	G
6	A	E
5	D	
4	F	F
3		D
2	E	A
1	G	C

B lives one of the floor below A. So, case 5 gets eliminated and we get our final arrangement.

	Case 3
Floor	Persons
7	C
6	A
5	D
4	F
3	B
2	E
1	G

S3. Ans.(d)

Sol.

	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6
Floor	Persons	Persons	Persons	Persons	Persons	Persons
7	D		C			
6		F		E	E	F
5	C	D	D	C		
4	E		F		F	E
3		C		D	D	C
2	F	E	E	F		
1					C	D

Only two person lives between D and E. D lives on an odd number floor. Only one person sits between C and D. Only two person sits between C and F.

Only two persons lives between G and F. So, from this statement Case 1, case 2, case 4 and case 6 gets eliminated. More than Three person lives between G and A.

	Case 3	Case 5
Floor	Persons	Persons
7	C	G
6	A	E
5	D	
4	F	F
3		D
2	E	A
1	G	C

B lives one of the floor below A. So, case 5 gets eliminated and we get our final arrangement.

	Case 3
Floor	Persons
7	C
6	A
5	D
4	F
3	B
2	E
1	G

S4. Ans.(a)

Sol.

Only two person lives between D and E. D lives on an odd number floor. Only one person sits between C and D. Only two person sits between C and F.

	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6
Floor	Persons	Persons	Persons	Persons	Persons	Persons
7	D		C			
6		F		E	E	F
5	C	D	D	C		
4	E		F		F	E
3		C		D	D	C
2	F	E	E	F		
1					C	D

Only two persons lives between G and F. So, from this statement Case 1, case 2, case 4 and case 6 gets eliminated. More than Three person lives between G and A.

	Case 3	Case 5
Floor	Persons	Persons
7	C	G
6	A	E
5	D	
4	F	F
3		D
2	E	A
1	G	C

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B lives one of the floor below A. So, case 5 gets eliminated and we get our final arrangement.

	Case 3
Floor	Persons
7	C
6	A
5	D
4	F
3	B
2	E
1	G

S5. Ans.(b)

Sol.

Only two person lives between D and E. D lives on an odd number floor. Only one person sits between C and D. Only two person sits between C and F.

	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6
Floor	Persons	Persons	Persons	Persons	Persons	Persons
7	D		C			
6		F		E	E	F
5	C	D	D	C		
4	E		F		F	E
3		C		D	D	C
2	F	E	E	F		
1					C	D

Only two persons lives between G and F. So, from this statement Case 1, case 2, case 4 and case 6 gets eliminated. More than Three person lives between G and A.

	Case 3	Case 5
Floor	Persons	Persons
7	C	G
6	A	E
5	D	
4	F	F
3		D
2	E	A
1	G	C

B lives one of the floor below A. So, case 5 gets eliminated and we get our final arrangement.

Case 3	
Floor	Persons
7	C
6	A
5	D
4	F
3	B
2	E
1	G

S6. Ans.(d)

Sol. The 16th element from the right is = '2'.

S7. Ans.(e)

Sol. There are four 2's which are followed by number less than 6 i.e. '2 5, 2 4, 2 4 and 2 3'.

S8. Ans.(c)

Sol. The fifth, seventh and tenth digit from the left are '4, 2 and 5'.

Hence, the sum is = $(4+2+5)= 11$.

S9. Ans.(b)

Sol. After removing all the perfect square digits '3 2 5 7 2 8 5 7 6 5 2 5 8 2 3 7 6 2 3'

Then $(6+5)= 11^{\text{th}}$ digit from the left is '2'.

S10. Ans.(e)

Sol. There are seven odd digits which are followed by a perfect square number- '3 1, 5 4, 7 1, 1 9, 1 4, 3 9, 9 4'

S11. Ans.(b)

Sol. Let us understand the logic behind the given machine Input.

In each step numbers are arranged from the both ends in each step. In the first step the lowest number is arranged on the left end after addition of 1 and the highest number is arranged from the right end after subtraction of 1 and in the second step second lowest number is arranged at the left end after the addition of 1 and the second highest number is arranged from the right end after subtraction of 1 and so on till the last step.

Input: 31 46 8 95 23 78 19 63

Step I: 9 31 46 23 78 19 63 94

Step II: 20 9 31 46 23 63 94 77

Step III: 24 20 9 31 46 94 77 62

Step IV: 32 24 20 9 94 77 62 45

S12. Ans.(a)

Sol. Let us understand the logic behind the given machine Input.

In each step numbers are arranged from the both ends in each step. In the first step the lowest number is arranged on the left end after addition of 1 and the highest number is arranged from the right end after subtraction of 1 and in the second step second lowest number is arranged at the left end after the addition of 1 and the second highest number is arranged from the right end after subtraction of 1 and so on till the last step.

Input: 31 46 8 95 23 78 19 63

Step I: 9 31 46 23 78 19 63 94

Step II: 20 9 31 46 23 63 94 77

Step III: 24 20 9 31 46 94 77 62

Step IV: 32 24 20 9 94 77 62 45

S13. Ans.(c)

Sol. Let us understand the logic behind the given machine Input.

In each step numbers are arranged from the both ends in each step. In the first step the lowest number is arranged on the left end after addition of 1 and the highest number is arranged from the right end after subtraction of 1 and in the second step second lowest number is arranged at the left end after the addition of 1 and the second highest number is arranged from the right end after subtraction of 1 and so on till the last step.

Input: 31 46 8 95 23 78 19 63

Step I: 9 31 46 23 78 19 63 94

Step II: 20 9 31 46 23 63 94 77

Step III: 24 20 9 31 46 94 77 62

Step IV: 32 24 20 9 94 77 62 45

S14. Ans.(d)

Sol. Let us understand the logic behind the given machine Input.

In each step numbers are arranged from the both ends in each step. In the first step the lowest number is arranged on the left end after addition of 1 and the highest number is arranged from the right end after subtraction of 1 and in the second step second lowest number is arranged at the left end after the addition of 1 and the second highest number is arranged from the right end after subtraction of 1 and so on till the last step.

Input: 31 46 8 95 23 78 19 63

Step I: 9 31 46 23 78 19 63 94

Step II: 20 9 31 46 23 63 94 77

Step III: 24 20 9 31 46 94 77 62

Step IV: 32 24 20 9 94 77 62 45

S15.Ans. (c)

Sol. The meaningful word formed is----Drag

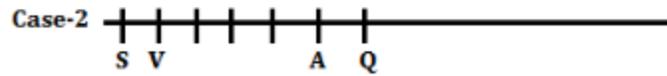
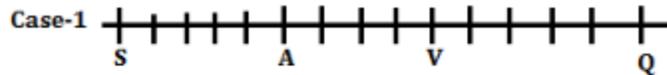
R A N D O M

S16.Ans. (c)

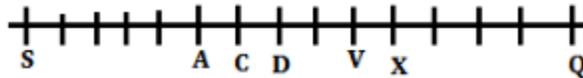
Sol.

S17. Ans.(b)

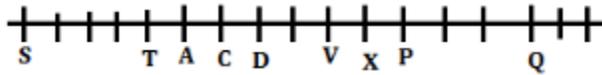
Sol. Q sits fifth to the right of V. Three person sit between V and A. S sits fifth to the left of A.



Only one person sit between V and D. S is not the immediate neighbor of D. X sits third to the right of D. So, from this case-2 gets eliminated.

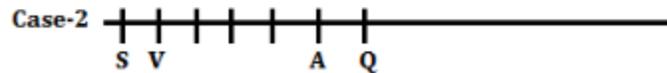
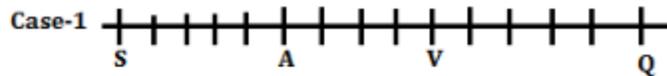


Only three persons sit between X and C. Q is third from the right end. Only six persons sit between P and T. P is an immediate neighbour of X.

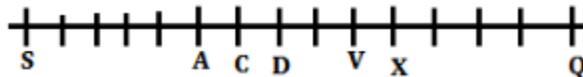


S18. Ans.(a)

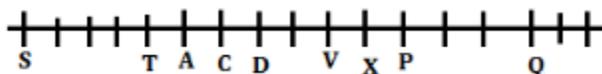
Sol. Q sits fifth to the right of V. Three person sit between V and A. S sits fifth to the left of A.



Only one person sit between V and D. S is not the immediate neighbor of D. X sits third to the right of D. So, from this case-2 gets eliminated.



Only three persons sit between X and C. Q is third from the right end. Only six persons sit between P and T. P is an immediate neighbour of X.



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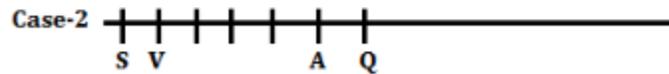
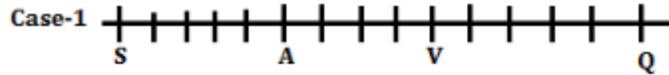
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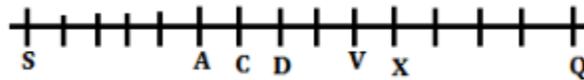
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S19. Ans.(d)

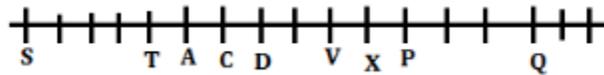
Sol. Q sits fifth to the right of V. Three person sit between V and A. S sits fifth to the left of A.



Only one person sit between V and D. S is not the immediate neighbor of D. X sits third to the right of D. So, from this case-2 gets eliminated.

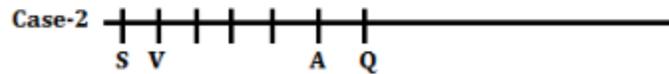
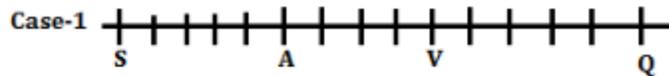


Only three persons sit between X and C. Q is third from the right end. Only six persons sit between P and T. P is an immediate neighbour of X.

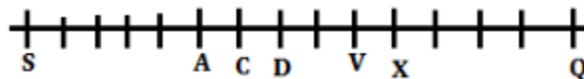


S20. Ans.(d)

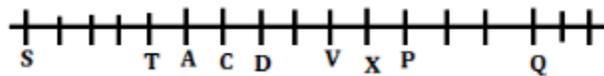
Sol. Q sits fifth to the right of V. Three person sit between V and A. S sits fifth to the left of A.



Only one person sit between V and D. S is not the immediate neighbor of D. X sits third to the right of D. So, from this case-2 gets eliminated.

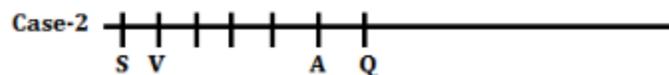
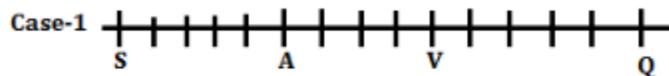


Only three persons sit between X and C. Q is third from the right end. Only six persons sit between P and T. P is an immediate neighbour of X.

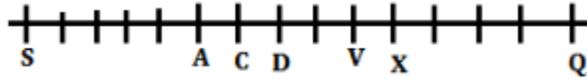


S21. Ans.(d)

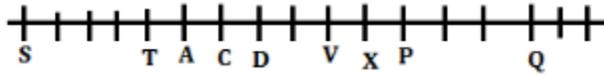
Sol. Q sits fifth to the right of V. Three person sit between V and A. S sits fifth to the left of A.



Only one person sit between V and D. S is not the immediate neighbor of D. X sits third to the right of D. So, from this case-2 gets eliminated.



Only three persons sit between X and C. Q is third from the right end. Only six persons sit between P and T. P is an immediate neighbour of X.



S22. Ans.(d)

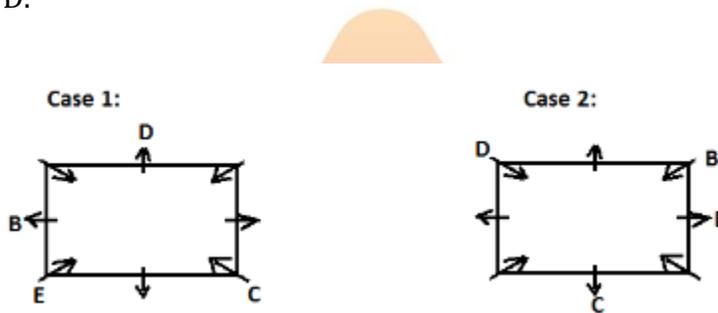
Sol.

$$F > G > H > J > I$$

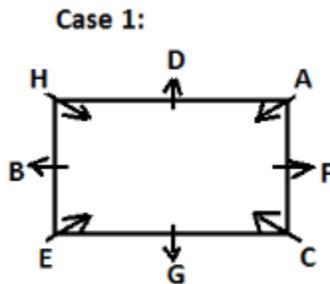
S23. Ans.(c)

Sol.

B sits third to the left of C, who sits second to the right of E. Only two persons sits between E and D. B does not sits opposite to D.



G sits second to the right of F. G is not the immediate neighbour of D. A is not the immediate neighbour of B. H does not face outside the centre of the table. So, case 2 will be eliminated.



S24. Ans.(a)

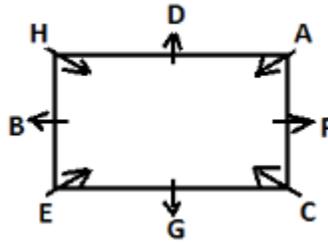
Sol.

B sits third to the left of C, who sits second to the right of E. Only two persons sits between E and D. B does not sits opposite to D.



G sits second to the right of F. G is not the immediate neighbour of D. A is not the immediate neighbour of B. H does not face outside the centre of the table. So, case 2 will be eliminated.

Case 1:

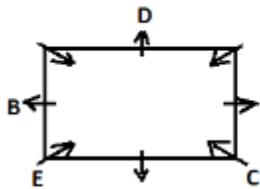


S25. Ans.(b)

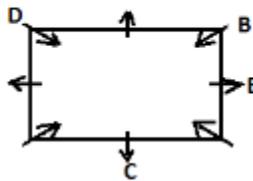
Sol.

B sits third to the left of C, who sits second to the right of E. Only two persons sits between E and D. B does not sits opposite to D.

Case 1:

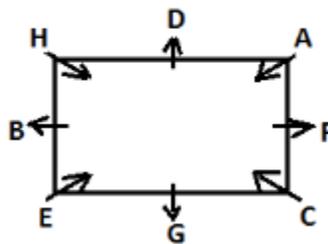


Case 2:



G sits second to the right of F. G is not the immediate neighbour of D. A is not the immediate neighbour of B. H does not face outside the centre of the table. So, case 2 will be eliminated.

Case 1:

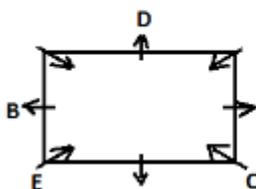


S26. Ans.(d)

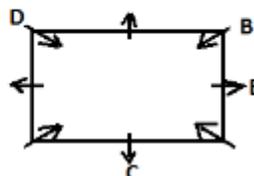
Sol.

B sits third to the left of C, who sits second to the right of E. Only two persons sits between E and D. B does not sits opposite to D.

Case 1:



Case 2:



Special Offer

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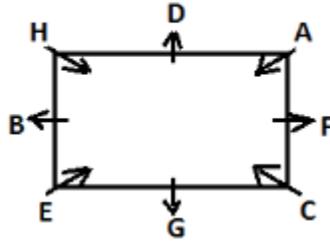
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G sits second to the right of F. G is not the immediate neighbour of D. A is not the immediate neighbour of B. H does not face outside the centre of the table. So, case 2 will be eliminated.

Case 1:

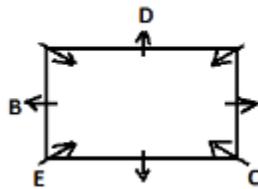


S27. Ans.(e)

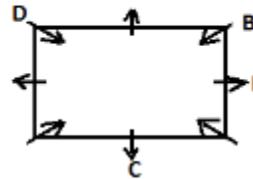
Sol.

B sits third to the left of C, who sits second to the right of E. Only two persons sits between E and D. B does not sits opposite to D.

Case 1:

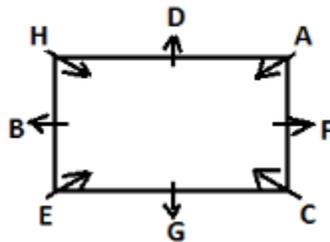


Case 2:



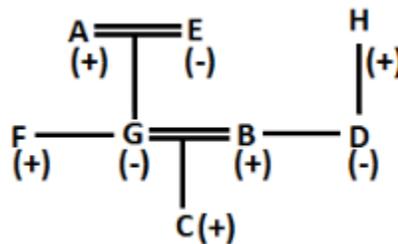
G sits second to the right of F. G is not the immediate neighbour of D. A is not the immediate neighbour of B. H does not face outside the centre of the table. So, case 2 will be eliminated.

Case 1:



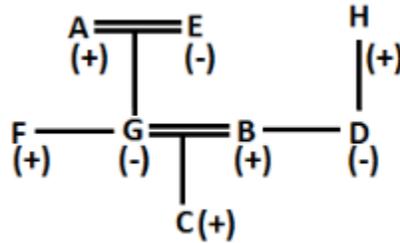
S28. Ans.(d)

Sol.



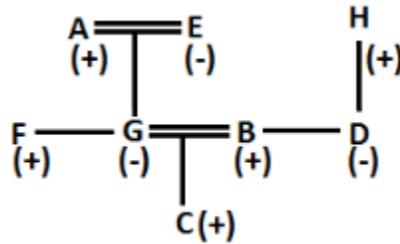
S29. Ans.(c)

Sol.



S30. Ans.(a)

Sol.



S31. Ans. (c)

Sol. More than three boxes are placed between L and P. Only one box is placed between box N and O. Box N is placed above box L. Box Q is placed immediately above K. Only one box is placed between Q and M.

Case-1	Case-2	Case-3	Case-4
P	P	N	N/O
N/O	Q	L	P
M	K	O	O/N
O/N	M	Q	Q
Q	N	K	K
K	L	M	M
L	O	P	L

Not more than one box is placed between P and K. So, from this case-1 and case-4 get eliminated. Box Q is not placed above O. So, case-2 also gets eliminated. So, the final arrangement is---

Boxes
N
L
O
Q
K
M
P

TEST SERIES

Bilingual

Video Solutions

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PRIME

135+ TOTAL TESTS | eBOOKS

Validity : 12 Months

S32. Ans. (d)

Sol. More than three boxes are placed between L and P. Only one box is placed between box N and O. Box N is placed above box L. Box Q is placed immediately above K. Only one box is placed between Q and M.

Case-1	Case-2	Case-3	Case-4
P	P	N	N/O
N/O	Q	L	P
M	K	O	O/N
O/N	M	Q	Q
Q	N	K	K
K	L	M	M
L	O	P	L

Not more than one box is placed between P and K. So, from this case-1 and case-4 get eliminated. Box Q is not placed above O. So, case-2 also gets eliminated. So, the final arrangement is---

Boxes
N
L
O
Q
K
M
P

S33. Ans. (c)

Sol. More than three boxes are placed between L and P. Only one box is placed between box N and O. Box N is placed above box L. Box Q is placed immediately above K. Only one box is placed between Q and M.

Case-1	Case-2	Case-3	Case-4
P	P	N	N/O
N/O	Q	L	P
M	K	O	O/N
O/N	M	Q	Q
Q	N	K	K
K	L	M	M
L	O	P	L

Not more than one box is placed between P and K. So, from this case-1 and case-4 get eliminated. Box Q is not placed above O. So, case-2 also gets eliminated. So, the final arrangement is---

Boxes
N
L
O
Q
K
M
P

S34. Ans. (a)

Sol. More than three boxes are placed between L and P. Only one box is placed between box N and O. Box N is placed above box L. Box Q is placed immediately above K. Only one box is placed between Q and M.

Case-1	Case-2	Case-3	Case-4
P	P	N	N/O
N/O	Q	L	P
M	K	O	O/N
O/N	M	Q	Q
Q	N	K	K
K	L	M	M
L	O	P	L

Not more than one box is placed between P and K. So, from this case-1 and case-4 get eliminated. Box Q is not placed above O. So, case-2 also gets eliminated. So, the final arrangement is---

Boxes
N
L
O
Q
K
M
P

S35. Ans. (a)

Sol. More than three boxes are placed between L and P. Only one box is placed between box N and O. Box N is placed above box L. Box Q is placed immediately above K. Only one box is placed between Q and M.

Case-1	Case-2	Case-3	Case-4
P	P	N	N/O
N/O	Q	L	P
M	K	O	O/N
O/N	M	Q	Q
Q	N	K	K
K	L	M	M
L	O	P	L

Not more than one box is placed between P and K. So, from this case-1 and case-4 get eliminated. Box Q is not placed above O. So, case-2 also gets eliminated. So, the final arrangement is---

Boxes
N
L
O
Q
K
M
P

S36. Ans.(d)

Sol.

$$\text{Boys in school A} = \frac{10}{100} \times 6400 = 640$$

$$\text{Girl in school A} = \frac{640}{2} \times 3 = 960$$

$$\text{Boys in school B} = \frac{15}{100} \times 6400 = 960$$

$$\text{Girls in school B} = \frac{960}{3} \times 7 = 2240$$

$$\text{Required difference} = 2240 - 960 = 1280$$

S37. Ans.(a)

Sol.

$$\text{Boys in school F} = \frac{7.5}{100} \times 6400 = 480$$

$$\text{Girls in school F} = 820 - 480 = 340$$

$$\text{Boys in school B} = \frac{15}{100} \times 640 = 960$$

$$\text{Required \%} = \frac{960-340}{960} \times 100 \simeq 65\%$$

S38. Ans.(a)

Sol.

$$\text{Required average} = \frac{1}{3} \times \left[\frac{10+12.5+7.5}{100} \right] \times 6400$$

$$= \frac{1}{3} \times \frac{30}{100} \times 6400$$

$$= 640$$

S39. Ans.(e)

Sol.

Let girls in school E be $3x$ and total students be $5x$.

ATQ,

$$2x = \frac{20}{100} \times 6400$$

$$x = 1280$$

$$\text{Girls in school E} = 1920$$

$$\text{Boys in school D} = \frac{35}{100} \times 6400 = 2240$$

$$\text{Required difference} = 2240 - 1920 = 320$$

S40. Ans.(c)

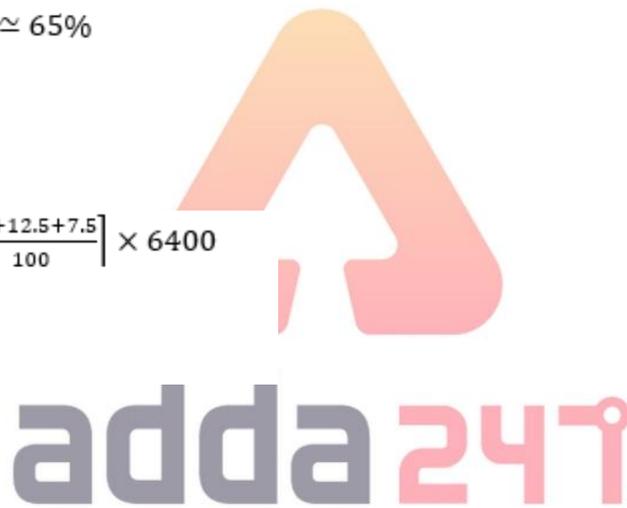
Sol.

Total student in school H

$$= \frac{350}{100} \times \frac{15}{100} \times 6400 = 3360$$

Let boys in school H be x and girls be $2x$.

$$\therefore \text{boys in school H} = \frac{3360}{3} \times 1 = 1120$$



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S41. Ans.(d)

Sol.

Cannot be determined.

S42. Ans.(e)

Sol.

Let efficiency of men and women be m and w .

$$\therefore 4w = 1m$$

ATQ,

$$12m \times 6 \times 4 = 6w \times d \times 8$$

[$d \rightarrow$ no. of days in which women can complete the work]

$$D = \frac{12 \times 4w \times 6 \times 4}{6w \times 8}$$

$$= 24 \text{ days.}$$

S43. Ans.(a)

Sol.

Volume of right circular cylinder (V) = $\pi r^2 h$

ATQ,

$$\pi r^2 h = 500\pi$$

$$\pi \times 10 \times 10 \times h = 500\pi$$

$$h = 5 \text{ cm.}$$

Let side of square be a cm.

$$\therefore \text{diagonal} = \sqrt{2} a$$

$$\sqrt{2} a = 5$$

$$a = \frac{5}{\sqrt{2}}$$

$$\therefore \text{Perimeter of square} = 4a = 4 \times \frac{5}{\sqrt{2}}$$

$$= 10\sqrt{2} \text{ cm}$$

S44. Ans.(a)

Sol.

Let C.P. of a sandal = Rs. $3x$.

\therefore C.P. of a shoe = Rs. x

Let S.P. of one shoes be Rs. a

And SP of one sandal be Rs. b

ATQ,

$$\frac{4a}{12 \times 3x} \times 100 = \frac{6b}{12 \times x} \times 100$$

$$a : b = 9 : 2$$



S45. Ans.(d)

Sol.

Let speed of boat in still water be
 x km/hr and speed of stream be y km/hr.

ATQ,

$$\frac{164}{(x-y)} = \frac{150}{100} \times \frac{164}{(x+y)}$$

$$2(x+y) = 3(x-y)$$

$$\therefore x = 5y$$

$$\therefore x = 5 \times 10 = 50 \text{ km/hr}$$

$$\therefore \text{Required time} = \frac{100}{50} = 2 \text{ hr.}$$

S46. Ans.(d)

Sol.

$$1278 + 1822 - 288 + 2122 = ?$$

$$? = 4934$$

S47. Ans.(a)

Sol.

$$\frac{3250}{25} + \frac{1208}{8} = ?$$

$$? = 130 + 151 = 281$$

S48. Ans.(c)

Sol.

$$(?)^2 = 34 + 12 - 30 = 16$$

$$? = 4$$

S49. Ans.(d)

Sol.

$$\sqrt{?} + 161 - \frac{546}{26} = 25 \times 6$$

$$\sqrt{?} + 161 - 21 = 150$$

$$\sqrt{?} = 150 - 140$$

$$? = (10)^2 = 100$$

S50. Ans.(e)

Sol.

$$(1-2+3+4) + \left(\frac{7}{8} - \frac{1}{4} + \frac{1}{2} + \frac{1}{4}\right) = ?$$

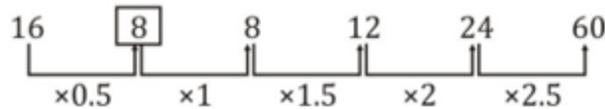
$$6 + \frac{7+4}{8} = ?$$

$$? = 6 + \frac{11}{8} = 7\frac{3}{8}$$



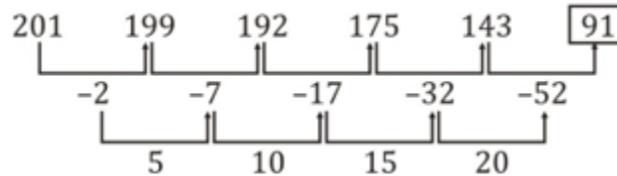
S51. Ans.(a)

Sol.



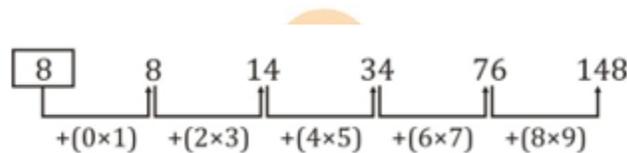
S52. Ans.(c)

Sol.



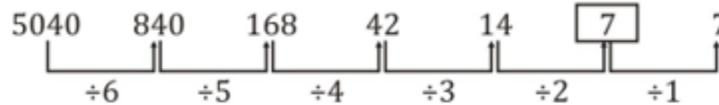
S53. Ans.(e)

Sol.



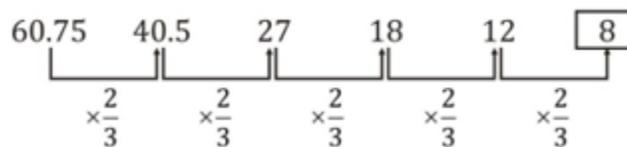
S54. Ans.(d)

Sol.



S55. Ans.(b)

Sol.



S56. Ans.(b)

Sol.

$$\frac{7}{2} \times \frac{22}{7} + \frac{23}{4} \times \frac{3}{46} = ?$$
$$? = 11 + \frac{3}{8} = 11\frac{3}{8}$$

S57. Ans.(c)

Sol.

$$\frac{1280}{8} + \frac{1220}{4} - 182 = ?$$
$$? = 160 + 305 - 182$$
$$? = 283$$

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S58. Ans.(b)

Sol.

$$\begin{aligned}\sqrt{123 \times 8 + 2389 - 1164} &= ? \\ ? &= \sqrt{984 + 2389 - 1164} \\ ? &= \sqrt{2209} \\ ? &= 47\end{aligned}$$

S59. Ans.(c)

Sol.

$$\begin{aligned}(13 + 2\sqrt{5})^2 &= ? \times \sqrt{5} + 189 \\ \Rightarrow 169 + 20 + 2 \times 13 \times 2\sqrt{5} &= ? \times \sqrt{5} + 189 \\ \Rightarrow 189 + 52 \times \sqrt{5} &= ? \times \sqrt{5} + 189 \\ \Rightarrow ? &= 52\end{aligned}$$

S60. Ans.(b)

Sol.

$$8\sqrt{?} \div 14 \times 3 + 9 = 21$$

$$\frac{8\sqrt{?}}{14} \times 3 + 9 = 21$$

$$\frac{24\sqrt{?}}{14} + 9 = 21$$

$$24\sqrt{?} = 21 \times 14 - 9 \times 14$$

$$\sqrt{?} = \frac{12 \times 14}{24} = 7$$

$$\Rightarrow ? = 49$$



S61. Ans.(a)

Sol.

Total item sold of all type

$$= \frac{1260}{30} \times 100 = 4200$$

Items sold of type A by Amazon.

$$\begin{aligned}&= \frac{10}{100} \times 4200 \times \frac{4}{5} \\ &= 336\end{aligned}$$

Items sold of type D by Flipkart

$$= \frac{18}{100} \times 4200 \times \frac{3}{4} = 567$$

$$\text{Required difference} = 567 - 336 = 231$$

S62. Ans.(b)

Sol.

$$\text{Required \%} = \frac{\frac{1260}{80} \times 22 \times \frac{1}{3}}{\frac{1260}{80} \times 20 \times \frac{2}{5}} \times 100 \simeq 92\%$$

S63. Ans.(e)

Sol.

$$\text{Required avg.} = \frac{1}{3} \left[\frac{1260}{30} \times (10 + 22 + 20) \right] = 728$$

S64. Ans.(e)

Sol.

$$\text{Required ratio} = \frac{30 \times \frac{7}{10}}{18 \times \frac{1}{4}} = 14 : 3$$

S65. Ans.(b)

Sol.

Avg. of items sold of type C and E by Amazon

$$= \frac{1}{2} \left[\frac{22}{100} \times 4200 \times \frac{2}{3} + \frac{20}{100} \times 4200 \times \frac{2}{5} \right]$$

$$= \frac{1}{2} [616 + 336]$$

$$= 476$$

Avg. of items sold of type A and B by flipkart

$$= \frac{1}{2} \left[\frac{10}{100} \times \frac{1}{5} \times 4200 + 1260 \times \frac{7}{10} \right]$$

$$= \frac{1}{2} [84 + 882]$$

$$= 483$$

$$\text{Required difference} = 483 - 476 = 7$$



S66. Ans.(d)

Sol.

$$\text{Required \%} = \frac{22-10}{10} \times 100 = 120\%$$

S67. Ans.(b)

Sol.

$$\frac{20}{100} (X + 2500) = \frac{40}{100} (X + 900)$$

$$0.2X + 500 = 0.4X + 360$$

$$0.2X = 140$$

$$X = 700$$

$$50\% \text{ of } X = \frac{1}{2} \times 700 = 350$$

S68. Ans.(a)

Sol.

$$\frac{{}^8C_1}{{}^{X+13}C_1} = \frac{1}{3}$$
$$\frac{8}{X+13} = \frac{1}{3}$$
$$24 = X + 13$$
$$\therefore X = 11$$

S69. Ans.(a)

Sol.

Let sum invested at 7% p.a. be Rs. x.

\therefore sum invested at 9% p.a. = Rs. (1800 - x)

ATQ,

$$\frac{x \times 3 \times 7}{100} + \frac{(1800-x) \times 3 \times 9}{100} = 420$$

$$\frac{6x}{100} = 486 - 420$$

x = Rs. 1100

$$\therefore \text{Required ratio} = \frac{1100}{1800-1100}$$

$$= \frac{1100}{700} = 11 : 7$$

S70. Ans.(d)

Sol.

Total present age of family = $23 \times 3 = 69$ years

Present age of son = $69 - 2 \times 27 = 69 - 54 = 15$ years

\therefore age of son after 11 years = 26 years.

Age of baby born = 7 years.

Required average = $\frac{26+7}{2} = 16.5$ years.

S71. Ans. (c)

Sol. Option (c) is the correct answer choice. Option (c) can be traced from the 5th paragraph of passage where it is stated as "While underground aquifers are exploited to exhaustion, the popular 'river-training' prescription imprisons our rivers within embankments, according to the inherited Western engineering canon that does not factor in the natural silt carried by rivers of the Himalaya."

S72. Ans. (d)

Sol. Option (d) is the correct answer choice. Option (b) can be traced from the 1st paragraph of passage where it is stated as "Ecological ruin is on a gallop across South Asia, with life and livelihood of nearly a quarter of the world's population affected. Yet, our polities are able to neither fathom nor address the degradation." Option (a) is stated in the first line of 2nd paragraph "Within each country, with politics dancing to the tune of populist consumerism, nature is without a guardian." Option (c) can be traced from the last line of the 2nd paragraph where it is stated as "Unfortunately, despite being a vast democracy

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where people power should be in the driving seat, the Indian state not only neglects its own realm, it does not take the lead on cross-border environmentalism.”

S73. Ans. (b)

Sol. Option (b) is the correct answer choice. Option (b) can be traced from the 2nd paragraph of passage where it is stated as “The erosion of civility in geopolitics keeps South Asian societies apart when people should be joining hands across borders to save our common ground.”

S74. Ans. (b)

Sol. option (b) is the most suitable answer choice.
'Done in' - extremely tired.

S75. Ans. (e)

Sol. option (e) is the most suitable answer choice as all the given statements are true. Option (a), (b) and (c) can be traced from the 4th paragraph where it is given as “On water, the subcontinent is running out of the resource due to the demands of industrialization and urbanization, and continuation of the colonial-era irrigation model based on flooding the fields. The economic and demographic forces are arrayed against the rivers and their right-of-way. In the hills, the Ganga in Uttarakhand and the Teesta of Sikkim are representative of rivers that have been converted into dry boulder tracts by ‘cascades’ of run-of-river hydroelectric schemes.” Option (d) can be traced from the 5th paragraph where it is given as “Everywhere, natural drainage is destroyed by highways and railway tracks elevated above the flood line, and bunds encircling towns and cities. Reduced flows and urban/industrial effluents have converted our great rivers into sewers.”

S76. Ans. (d)

Sol. Option (d) is the best answer choice here.

Gallop- a very fast pace of running

All the given options are the antonyms of the given word ‘gallop’ except option (d)

S77. Ans. (e)

Sol. Option (e) is the best answer choice here.

Fathom-understand (a difficult problem or an enigmatic person) after much thought

All the given options are different in meaning except ‘understand’

S78. Ans. (a)

Sol. Perforce- used to express necessity or inevitability.

Subliminally- below the threshold of sensation or consciousness

Equivocally- in a deliberately ambiguous or questionable way

Option (a) is the best answer choice here.

S79. Ans. (c)

Sol. Denizens- a person, animal, or plant that lives or is found in a particular place

All the given options are the synonyms of the given word ‘denizen’ except option (c), ‘alien’

S80. Ans. (b)

Sol. Fate- the development of events outside a person's control, regarded as predetermined by a supernatural power.

All the given options are either the synonyms or altogether different in meaning to the given word 'fate', except option (b).

S81. Ans. (d)

Sol. The hint for the blank can be derived from a sentence of the third paragraph 'Suddenly the oxygen masks came down from above their seats.' The sentence suggests that the journey wasn't a *happy* journey. The words 'scary, horrifying, chilling and intimidating' are synonyms. So, the correct mis-fit for the word is '*happy*'. Hence, option (d) is the correct answer.

S82. Ans. (b)

Sol. *Something* took off. The given passage talks about an airplane belonging to the Jet Airways. A car is something which can't take off. So, the correct misfit is the option (b) which is 'car'.

The correct phrase should have been '*When the flight took off*'.

S83. Ans. (a)

Sol. The sentence where the given blank appears seems to be composed of two clauses—one subordinate clause, starting with 'when' and the other independent clause.

'everything _____ normal' should be an independent clause. Among the given options, options (b), (c) and (d) seem to fit the blank appropriately, but the option (a) doesn't and is irrelevant as per the context of the sentence.

The correct clause should be '*everything seemed/appeared/looked normal*'.

S84. Ans. (b)

Sol. The tone and the context of the paragraph suggests that the passengers of the airplane were in trouble and had a bad experience. So, option (b) 'pleasure' is a completely misfit word.

The correct clause should be '*the trouble of these passengers began*'.

S85. Ans. (c)

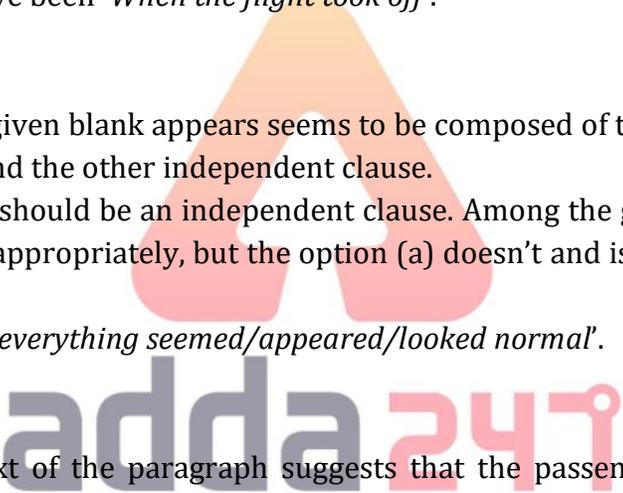
Sol. Something was *flying*. That *something* would be flying at a height.

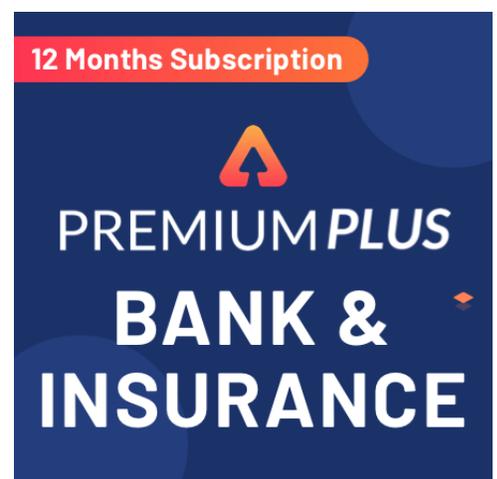
The correct phrase should have been 'was flying at an altitude'. Among the given options, '*building*' which is the option (c) is a misfit option and is the correct answer.

S86. Ans. (a)

Sol. The given passage talks about the suffering or tribulations of the passengers of the Jet Airways flight.

Option (a) 'soldiers' is a mis-fit and is the correct answer.

The correct clause should have been 'Suddenly the passengers started feeling...'.




S87. Ans. (e)

Sol. The tone of the sentence and the context of the passage suggests that the passengers would have *started* putting on the oxygen mask. So, the option (e) which is 'stopped' is a mis-fit word and is the correct answer.

The correct clause should have been '*The panicked passengers started putting oxygen masks*'.

S88. Ans. (c)

Sol. The context of the sentence where the blank appears suggest that the oxygen masks weren't working. So, the commuters would have 'complained' about it.

The words 'criticized, whined and moaned' are also appropriate for the blank, but the option (c) which is 'praised' is completely irrelevant and a misfit.

Hence, option (c) is the correct answer.

The correct clause should have been '*while many complained...*'

S89. Ans. (d)

Sol. The correct words to describe the situation faced by the passengers when oxygen masks weren't working, and the passengers were facing life-threatening inconvenience are 'hue and cry, disturbance, uproar, ruckus among others'. Option (d) 'enjoyment' is a completely irrelevant option and is a mis-fit. Hence, the correct answer is option (d).

The correct phrase should have been '*After about 10-15 minutes of uproar*'.

S90. Ans. (e)

Sol. Flowing of oxygen into the oxygen masks would and should have brought *relief* to the passengers. Words like 'consolation, comfort, and ease' are also appropriate.

The word 'problem' is completely irrelevant and a misfit as per the context of the sentence.

Hence, the correct answer is option (e).

The correct phrase would have been '*much to the relief of the passengers*'.

S91. Ans. (c)

Sol. The context of the sentence suggests that RSS Sarsanghchhalak will be visiting Rajasthan where he stay there for days. Among the given options, option (c) provides the best alternatives to the blank and is the correct answer.

S92. Ans. (d)

Sol. The word 'manages' for the second blank doesn't impart complete sense to the sense, but an incomplete sense. Jet Airways would manage *its* 49% stake... If the stakes were already belonged to Jet Airways, what is the need to state that it would *manages* its own stake. That's already understood.

The option which provides correct and relevant alternatives to the blank is the option (d).

S93. Ans. (b)

Sol. The context of the sentence suggests that the blank would be filled by a preposition to impart a correct relationship between 'Solar capacity installations is at 25,000 megawatts (MW)' and 'the country'. The phrase '_____ the country' is behaving as an adverb-phrase. Among the given alternatives for the first blank, the correct preposition to be used is 'in'.

Now, 25,000 megawatts (MW) is *one-fourth* of the 100,000 MW.

So, the correct answer is the option (b).

S94. Ans. (a)

Sol. Kindly focus on the clause 'it (government) would merge Bank of Baroda, Vijaya Bank and Dena Bank to form the third largest _____ in India'. Three banks would be merged to give a larger bank. Notice that the word 'lender' is a synonym for the word 'bank'. For the first blank, both 'announced' and 'decided' are appropriate.

Considering the above, the correct option which imparts correct and relevant words to the blanks is the option (a).

Hence, option (a) is the correct answer.

S95. Ans. (e)

Sol. The phrase 'reducing dependence on imported fossil fuel...' suggests that the proposal was approved. For the second blank, the appropriate words are 'carrier' and 'railways'.

From above, it can be derived that the correct answer is option (e).

S96. Ans. (a)

Sol. There is an error in the part (A). The erroneous phrase is 'will be'. The correct phrase will be 'will cost'. So, the correct answer is option (a).

S97. Ans. (D)

Sol. There is an error in the part (D), and the erroneous part is 'is momentous event'. The correct phrase would be 'is a momentous event'. 'Momentous event' is a noun-phrase (noun type- common noun) and should be preceded by an article.

Hence, the correct answer is option (d).

S98. Ans. (B)

Sol. There is an error in the part (B), and the error is in the phrase 'companies for the world'. Incorrect preposition 'for' is used in the phrase. The correct preposition to be used is 'around'.

Hence, the correct answer is option (b).

S99. Ans. (b)

Sol. There is an error in the part (B) of the sentence, and the erroneous phrase is 'since the past two years'. The usage of 'since' is incorrect, and the correct word to be used here is 'for'.

Hence, the correct answer is option (b).

S100. Ans. (e)

Sol. The given sentence is grammatically correct and contextually meaningful. The correct answer is option (e).



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