

# BOOKS



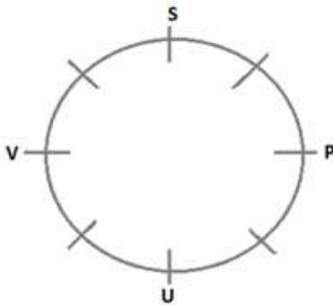
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## Solutions

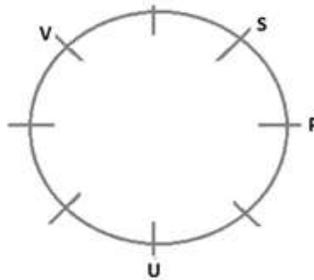
### S1. Ans.(e)

**Sol.** From the given conditions, P sits second to right of U. V, who does not sit near to U and P, sits second to the right of S.

Case-1

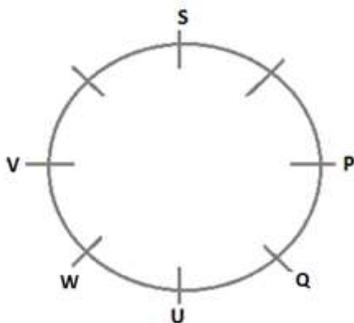


Case-2

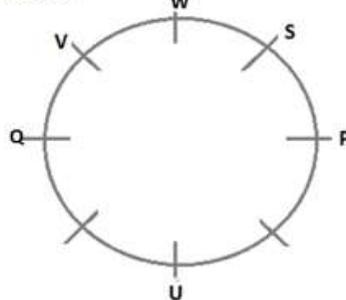


From the rest conditions, only two people sit between S and Q. W sits second to left of Q.

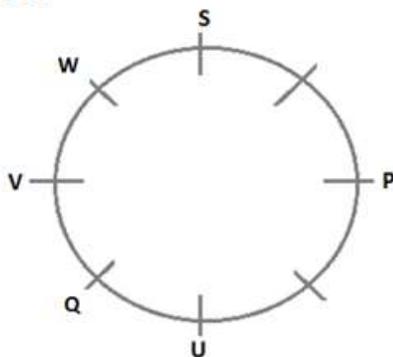
Case-1



Case-2

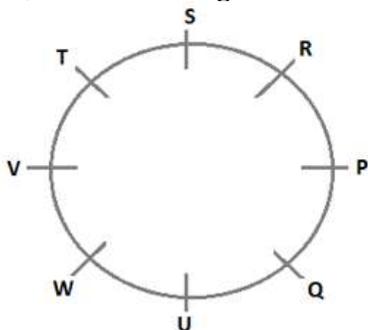


Case-1a



T is not an immediate neighbor U, from that condition case-2 will be eliminated. R is not an immediate neighbour of V and U. T does not sit opposite to W, from that condition case-1a will be eliminated.

So, the final arrangement are-



**LIVE BATCH**

Duration  
35 Days

**ULTIMATE**  
Complete Package

- Continuous Live Classes
- Live Doubt Sessions

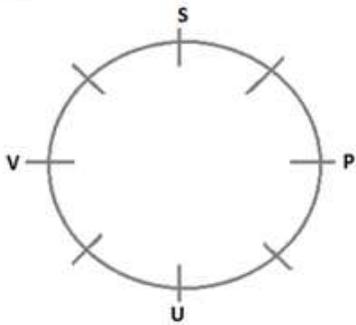
MATHS & REASONING

Hindi & English with E book

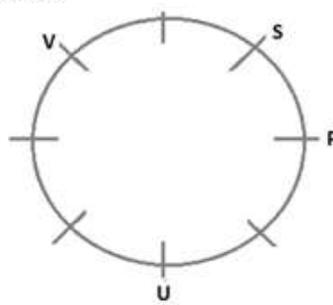
**S2. Ans.(e)**

**Sol.** From the given conditions, P sits second to right of U. V, who does not sit near to U and P, sits second to the right of S.

Case-1

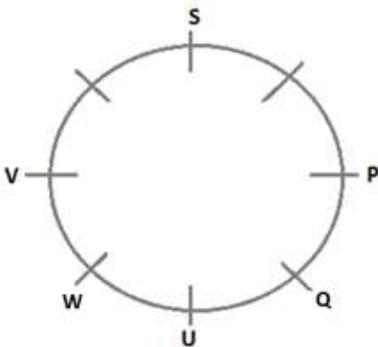


Case-2

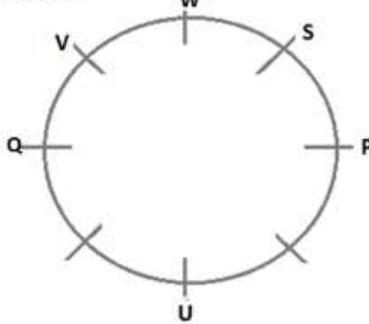


From the rest conditions, only two people sit between S and Q. W sits second to left of Q.

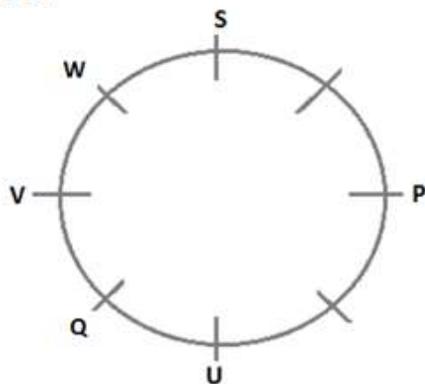
Case-1



Case-2

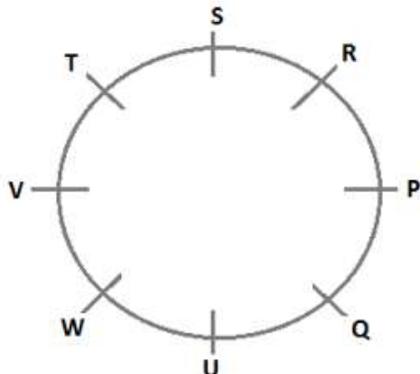


Case-1a



T is not an immediate neighbor U, from that condition case-2 will be eliminated. R is not an immediate neighbour of V and U. T does not sit opposite to W, from that condition case-1a will be eliminated.

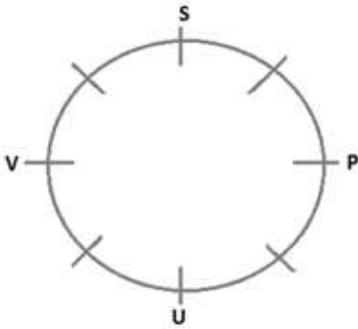
So, the final arrangement are-



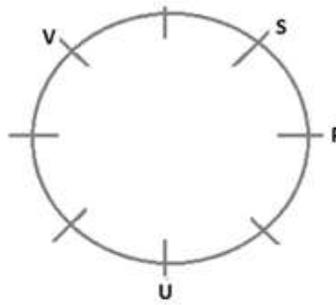
**S3. Ans.(a)**

**Sol.** From the given conditions, P sits second to right of U. V, who does not sit near to U and P, sits second to the right of S.

Case-1

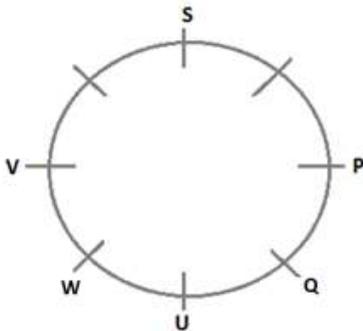


Case-2

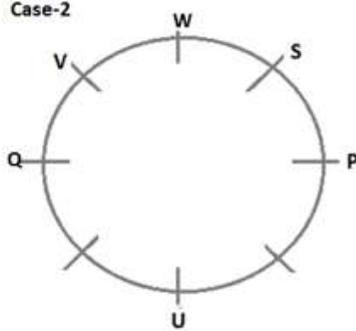


From the rest conditions, only two people sit between S and Q. W sits second to left of Q.

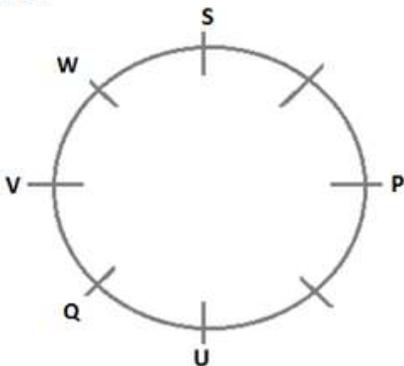
Case-1



Case-2

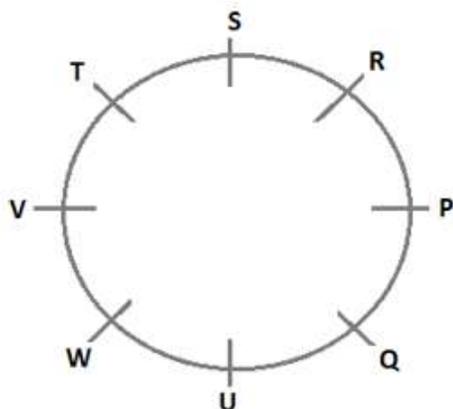


Case-1a



T is not an immediate neighbor U, from that condition case-2 will be eliminated. R is not an immediate neighbour of V and U. T does not sit opposite to W, from that condition case-1a will be eliminated.

So, the final arrangement are-



**IBPS RRB 2019**

**PO + CLERK**

**PRIME PACKAGE**

**160+ TOTAL TESTS**

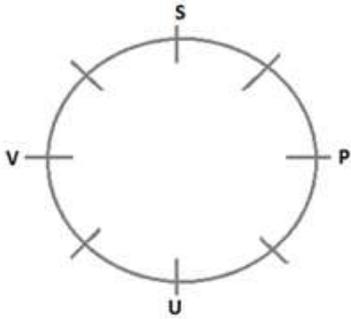
- 60 FULL LENGTH MOCKS
- 10+ PREVIOUS YEARS PAPERS
- 70 SECTION WISE SETS
- 20 TOPIC WISE PRACTICE SETS

**BILINGUAL**

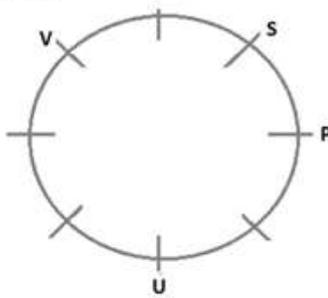
**S4. Ans.(d)**

**Sol.** From the given conditions, P sits second to right of U. V, who does not sit near to U and P, sits second to the right of S.

Case-1

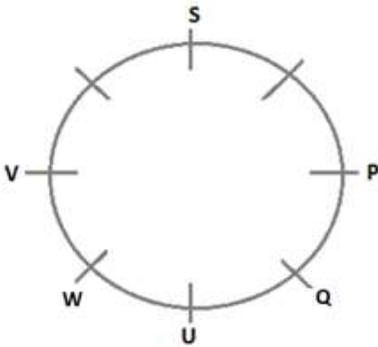


Case-2

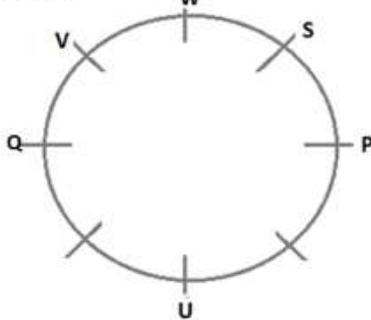


From the rest conditions, only two people sit between S and Q. W sits second to left of Q.

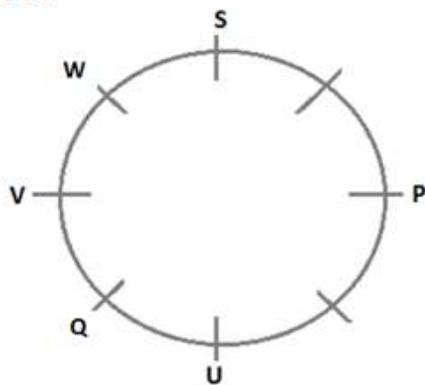
Case-1



Case-2

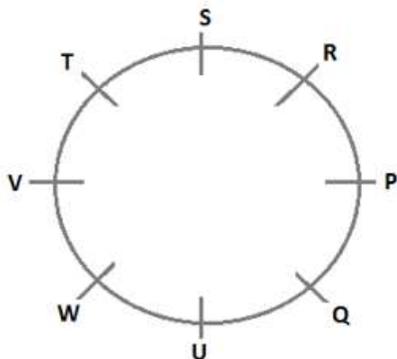


Case-1a



T is not an immediate neighbor U, from that condition case-2 will be eliminated. R is not an immediate neighbour of V and U. T does not sit opposite to W, from that condition case-1a will be eliminated.

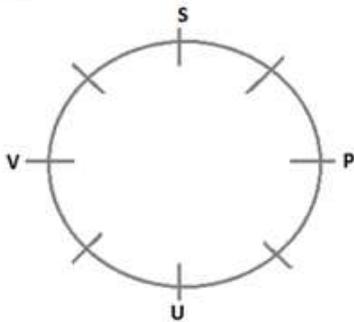
So, the final arrangement are-



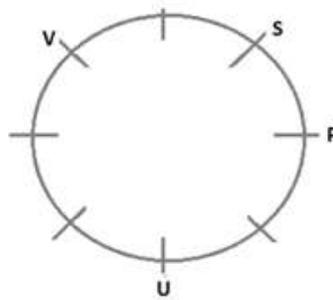
**S5. Ans.(d)**

**Sol.** From the given conditions, P sits second to right of U. V, who does not sit near to U and P, sits second to the right of S.

Case-1

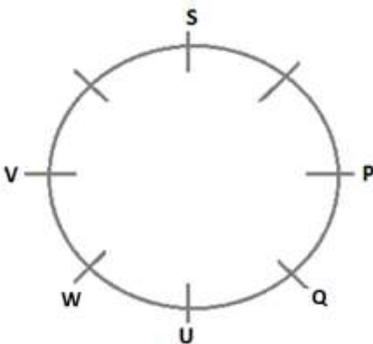


Case-2

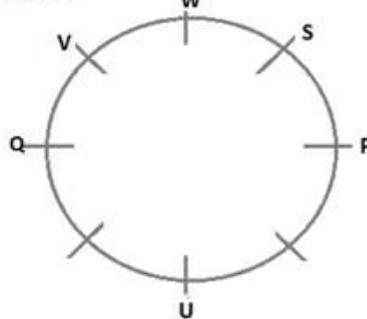


From the rest conditions, only two people sit between S and Q. W sits second to left of Q.

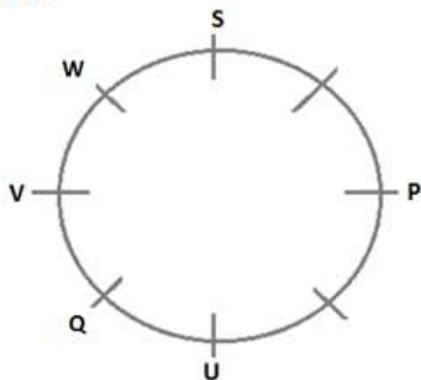
Case-1



Case-2

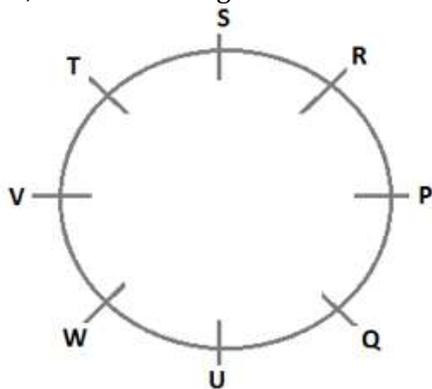


Case-1a



T is not an immediate neighbor U, from that condition case-2 will be eliminated. R is not an immediate neighbour of V and U. T does not sit opposite to W, from that condition case-1a will be eliminated.

So, the final arrangement are-



**Special Offer**

**LIC AAO MAINS**

**PRIME 2019**

**GENERALIST**

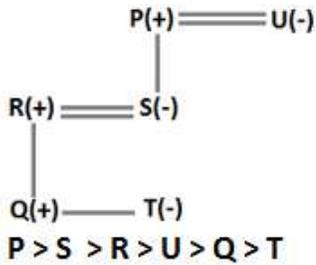
**45+ TOTAL TESTS**

- 10 Full Length Mocks
- 15 Section Wise Sets
- 20 Topic Wise sets
- 2 Previous Years Papers
- eBooks

**BILINGUAL**

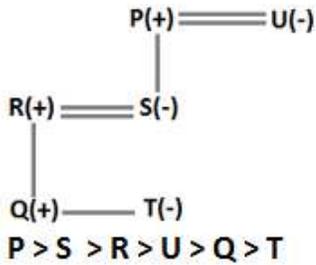
S6. Ans.(d)

Sol.



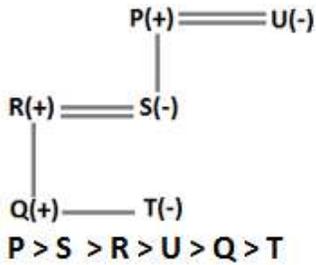
S7. Ans.(a)

Sol.



S8. Ans.(b)

Sol.



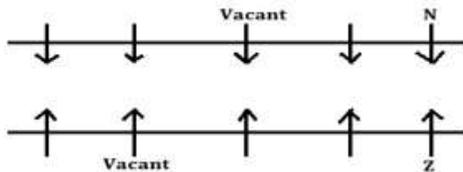
S9. Ans.(a)

S10. Ans.(e)

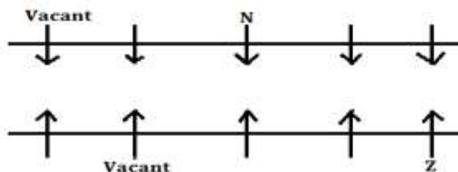
S11. Ans.(c)

Sol. Vacant seat is third to the left of Z. Vacant seat is second to the right of N. From these conditions there are four possible cases-

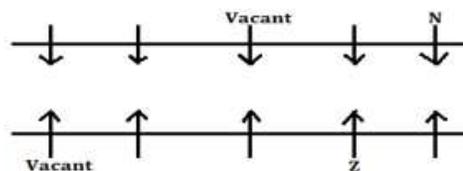
Case- 1



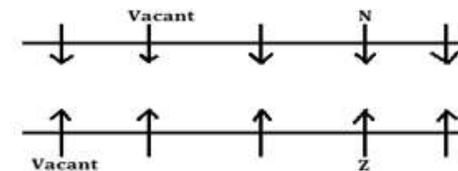
Case- 1a



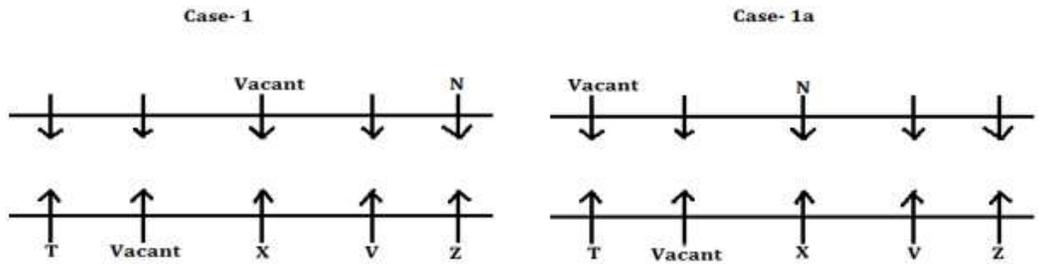
Case- 2



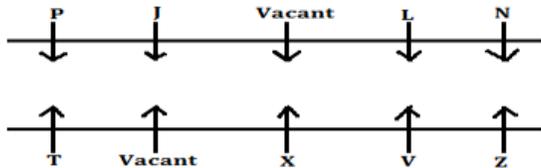
Case- 2a



There is one seat between T and X. Only one boy sits between T and V. By these conditions Case- 2 and Case- 2a are cancelled. So vacant seat is between T and X.

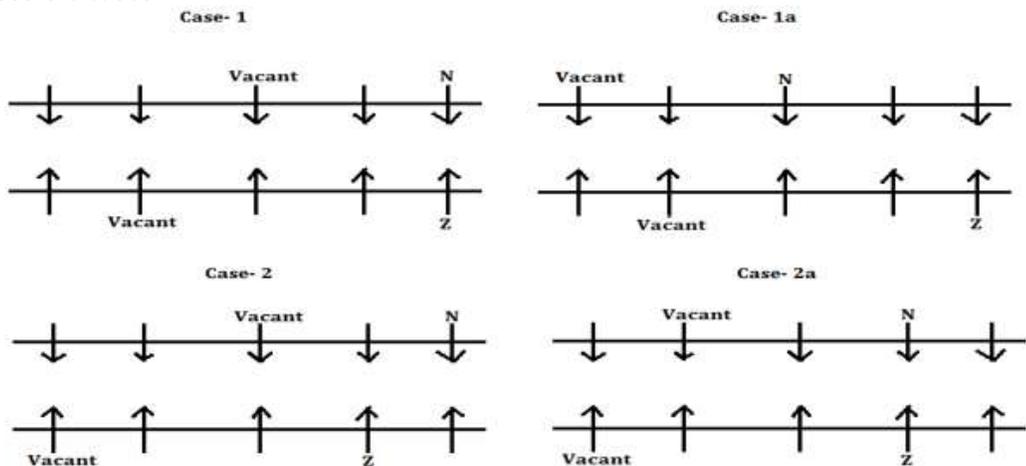


Only one boy sits between P and L, who does not face T. J does not face Z. By these conditions Case-1a is cancelled. So final arrangement will be-

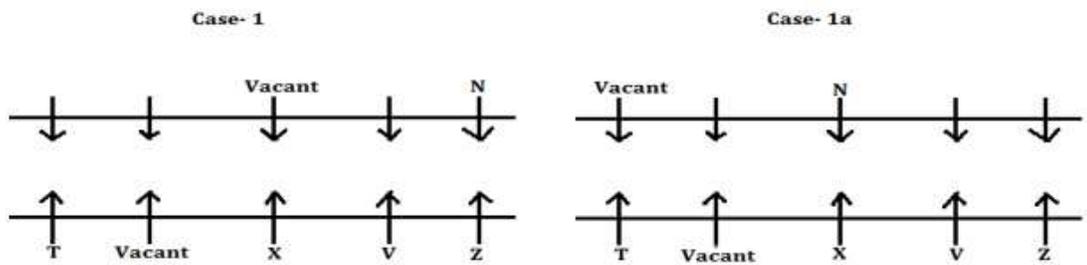


**S12. Ans.(a)**

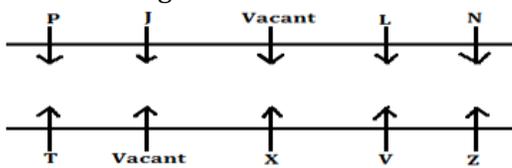
**Sol.** Vacant seat is third to the left of Z. Vacant seat is second to the right of N. From these conditions there are four possible cases-



There is one seat between T and X. Only one boy sits between T and V. By these conditions Case- 2 and Case- 2a are cancelled. So vacant seat is between T and X.

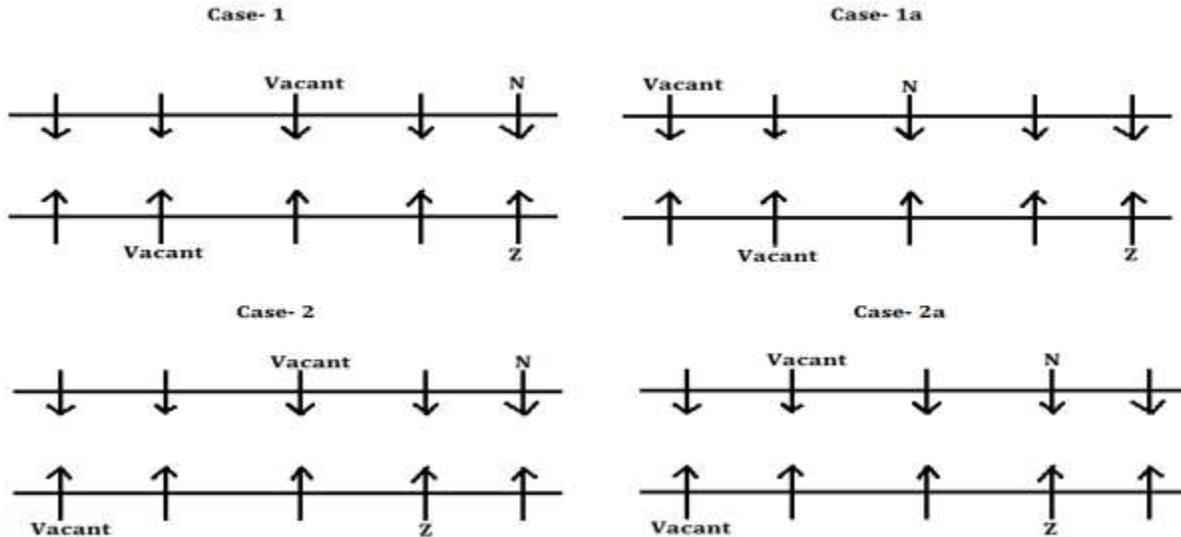


Only one boy sits between P and L, who does not face T. J does not face Z. By these conditions Case-1a is cancelled. So final arrangement will be-

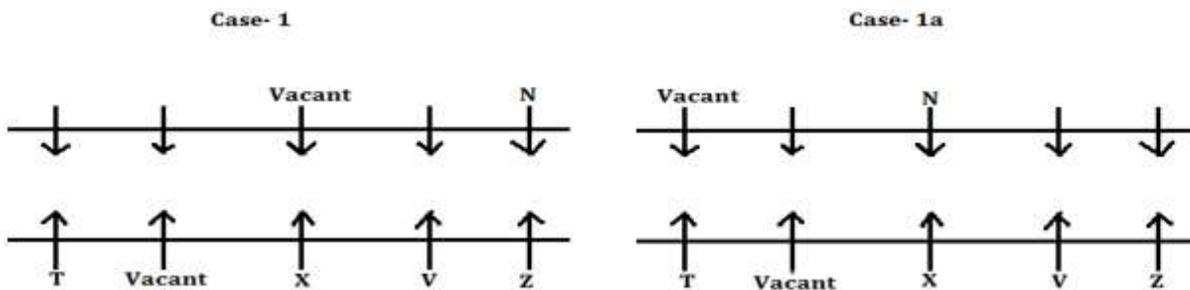


**S13. Ans.(b)**

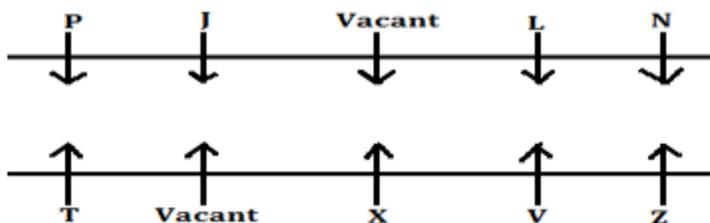
**Sol.** Vacant seat is third to the left of Z. Vacant seat is second to the right of N. From these conditions there are four possible cases-



There is one seat between T and X. Only one boy sits between T and V. By these conditions Case- 2 and Case- 2a are cancelled. So vacant seat is between T and X.

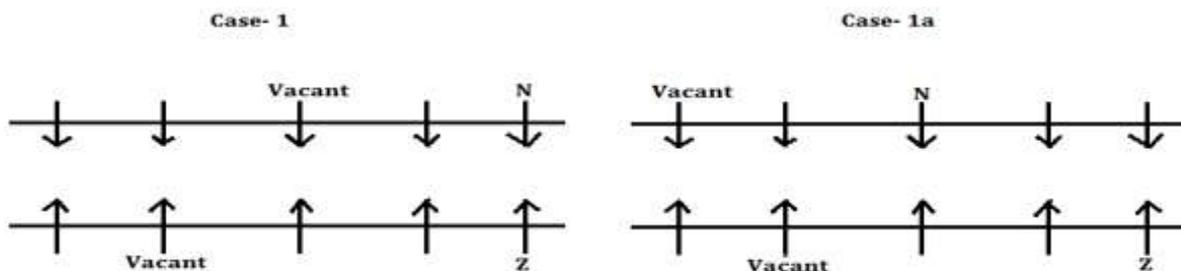


Only one boy sits between P and L, who does not face T. J does not face Z. By these conditions Case-1a is cancelled. So final arrangement will be-

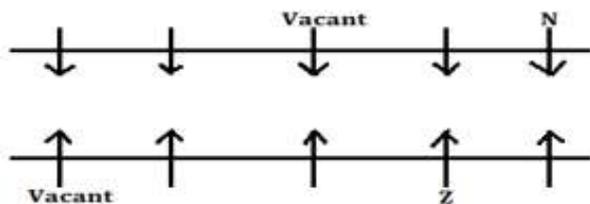


**S14. Ans.(e)**

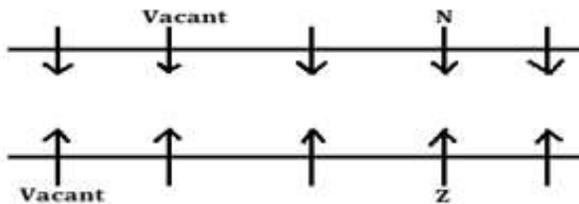
**Sol.** Vacant seat is third to the left of Z. Vacant seat is second to the right of N. From these conditions there are four possible cases-



Case- 2

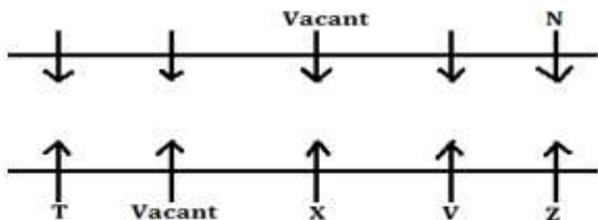


Case- 2a

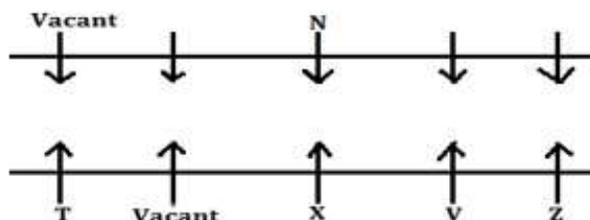


There is one seat between T and X. Only one boy sits between T and V. By these conditions Case- 2 and Case- 2a are cancelled. So vacant seat is between T and X.

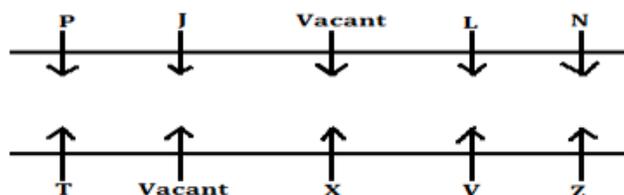
Case- 1



Case- 1a



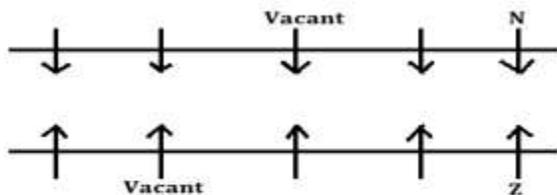
Only one boy sits between P and L, who does not face T. J does not face Z. By these conditions Case-1a is cancelled. So final arrangement will be-



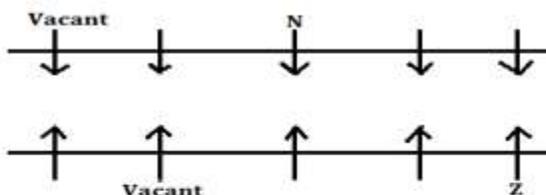
S15. Ans.(e)

Sol. Vacant seat is third to the left of Z. Vacant seat is second to the right of N. From these conditions there are four possible cases-

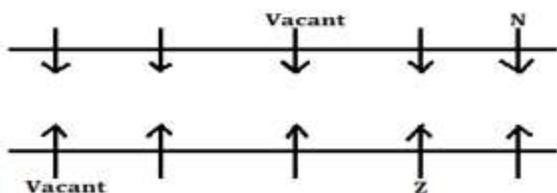
Case- 1



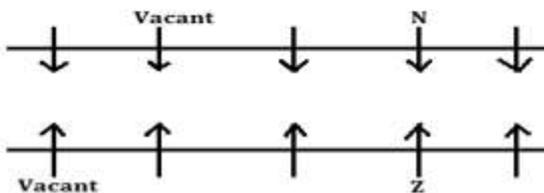
Case- 1a



Case- 2



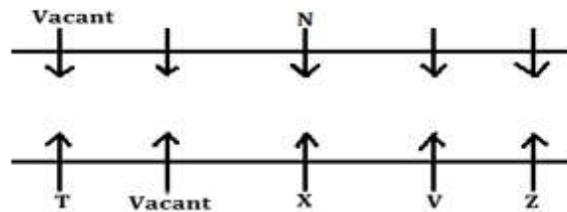
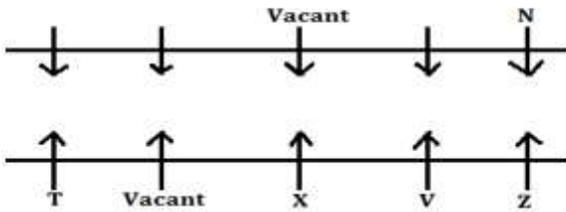
Case- 2a



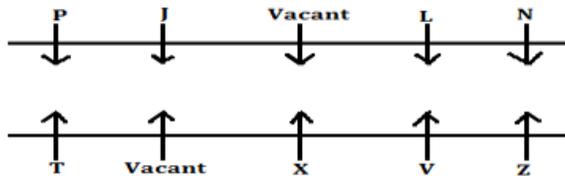
There is one seat between T and X. Only one boy sits between T and V. By these conditions Case- 2 and Case- 2a are cancelled. So vacant seat is between T and X.

Case- 1

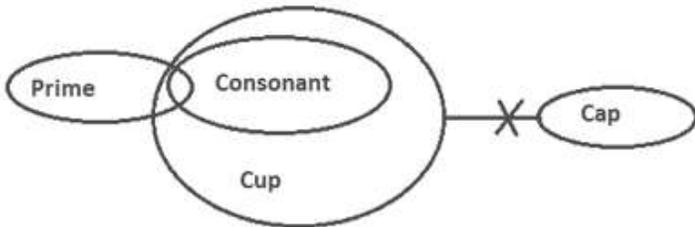
Case- 1a



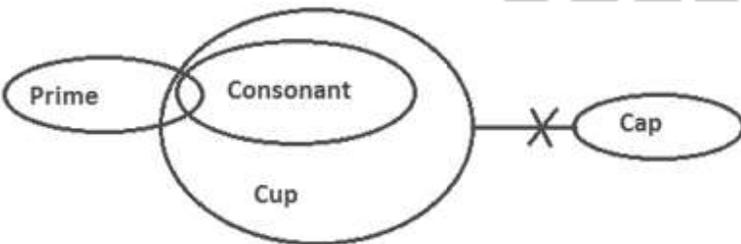
Only one boy sits between P and L, who does not face T. J does not face Z. By these conditions Case-1a is cancelled. So final arrangement will be-



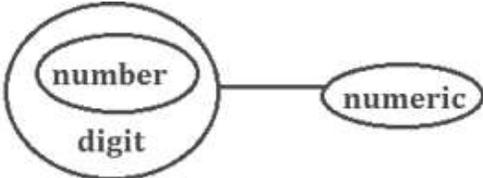
S16. Ans.(b)  
Sol.



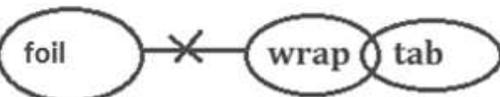
S17. Ans.(e)  
Sol.



S18. Ans.(e)  
Sol.



S19. Ans.(e)  
Sol.



**IBPS RRB  
PO/ CLERK 2019**

**COMPLETE KIT**

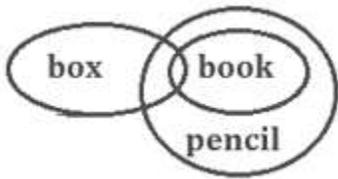
Test Series | Books | eBooks

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160 + Total Tests  
500 + eBooks  
4 Printed Edition Books

S20. Ans.(e)

Sol.



S21. Ans.(a)

Sol. H lives on even numbered floor. H lives immediately below K. More than three girls live between K and B. Only one girl lives between B and C. C does not live on fourth floor. From these conditions there are two possible cases-

	Case-1	Case-2
Floor	Girls	Girls
8		B
7	K	
6	H	C
5		
4		
3	C	K
2		H
1	B	

Three girls live between A and J. J lives above A. C does not live immediate below A and H. By this condition case-1 is cancelled. D does not live on odd numbered floor. So final arrangement will be

Floor	Girls
8	B
7	I
6	C
5	J
4	D
3	K
2	H
1	A

S22. Ans.(e)

Sol. H lives on even numbered floor. H lives immediately below K. More than three girls live between K and B. Only one girl lives between B and C. C does not live on fourth floor. From these conditions there are two possible cases-

	Case-1	Case-2
Floor	Girls	Girls
8		B
7	K	
6	H	C
5		
4		
3	C	K
2		H
1	B	

Three girls live between A and J. J lives above A. C does not live immediate below A and H. By this condition case-1 is cancelled. D does not live on odd numbered floor. So final arrangement will be

Floor	Girls
8	B
7	I
6	C
5	J
4	D
3	K
2	H
1	A

**S23. Ans.(c)**

**Sol.** H lives on even numbered floor. H lives immediately below K. More than three girls live between K and B. Only one girl lives between B and C. C does not live on fourth floor. From these conditions there are two possible cases-

	Case-1	Case-2
Floor	Girls	Girls
8		B
7	K	
6	H	C
5		
4		
3	C	K
2		H
1	B	

Three girls live between A and J. J lives above A. C does not live immediate below A and H. By this condition case-1 is cancelled. D does not live on odd numbered floor. So final arrangement will be

Floor	Girls
8	B
7	I
6	C
5	J
4	D
3	K
2	H
1	A

**S24. Ans.(b)**

**Sol.** H lives on even numbered floor. H lives immediately below K. More than three girls live between K and B. Only one girl lives between B and C. C does not live on fourth floor. From these conditions there are two possible cases-

	Case-1	Case-2
Floor	Girls	Girls
8		B
7	K	
6	H	C
5		
4		
3	C	K
2		H
1	B	

Three girls live between A and J. J lives above A. C does not live immediate below A and H. By this condition case-1 is cancelled. D does not live on odd numbered floor. So final arrangement will be

Floor	Girls
8	B
7	I
6	C
5	J
4	D
3	K
2	H
1	A

S25. Ans.(b)

Sol. H lives on even numbered floor. H lives immediately below K. More than three girls live between K and B. Only one girl lives between B and C. C does not live on fourth floor. From these conditions there are two possible cases-

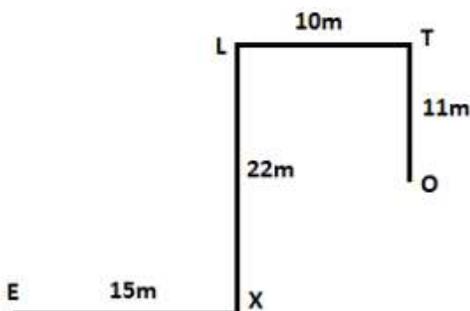
	Case-1	Case-2
Floor	Girls	Girls
8		B
7	K	
6	H	C
5		
4		
3	C	K
2		H
1	B	

Three girls live between A and J. J lives above A. C does not live immediate below A and H. By this condition case-1 is cancelled. D does not live on odd numbered floor. So final arrangement will be

Floor	Girls
8	B
7	I
6	C
5	J
4	D
3	K
2	H
1	A

S26. Ans.(a)

Sol.



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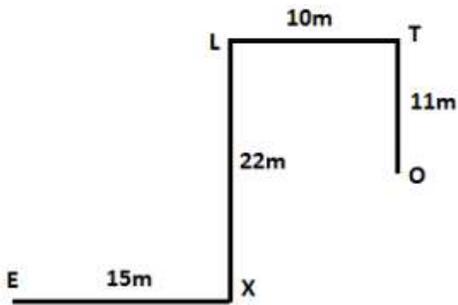
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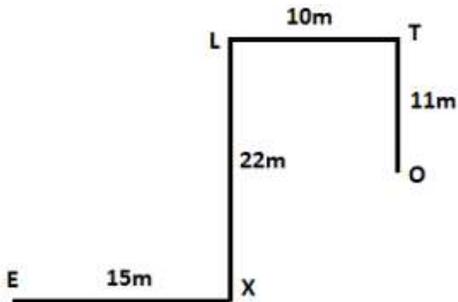
S27. Ans.(b)

Sol.



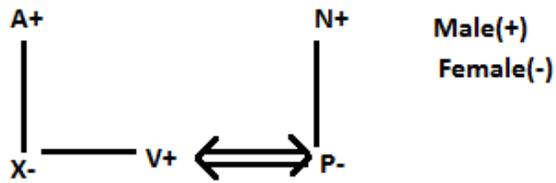
S28. Ans.(c)

Sol.



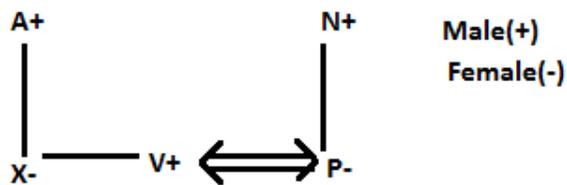
S29. Ans.(e)

Sol.



S30. Ans.(b)

Sol.



S31. Ans.(c)

Sol. From the given conditions, B and F like same subject but not chemistry. C likes Physics and married with T. E likes the same subject with only G, who married with S. G does not like Math. So, we get.

Case-1

MATH		PHYSICS		CHEMISTRY	
B(+)		C(+)	T(-)	E(+)	
F(+)				G(+)	S(-)

**Case-2**

MATH		PHYSICS		CHEMISTRY	
		B(+)		E(+)	
		F(+)		G(+)	S(-)
		C(+)	T(-)		

H does not like Math from that condition Case-2 will be eliminated. Case-1 is continued. A does not like physics. W and U are the wife of A and B respectively. D does not like the same subject which like by F, who married with P.

**Case-1**

MATH		PHYSICS		CHEMISTRY	
B(+)	U(-)	C(+)	T(-)	E(+)	
F(+)	P(-)	H(+)		G(+)	S(-)
A(+)	W(-)	D(+)			

Now from the rest conditions, H is neither married with T nor Q. E is neither the husband of Q nor V. The final arrangement will be-

**Case-1**

MATH		PHYSICS		CHEMISTRY	
B(+)	U(-)	C(+)	T(-)	E(+)	R(-)
F(+)	P(-)	H(+)	V(-)	G(+)	S(-)
A(+)	W(-)	D(+)	Q(-)		

**S32. Ans.(b)**

**Sol.** From the given conditions, B and F like same subject but not chemistry. C likes Physics and married with T. E likes the same subject with only G, who married with S. G does not like Math. So, we get.

**Case-1**

MATH		PHYSICS		CHEMISTRY	
B(+)		C(+)	T(-)	E(+)	
F(+)				G(+)	S(-)

**Case-2**

MATH		PHYSICS		CHEMISTRY	
		B(+)		E(+)	
		F(+)		G(+)	S(-)
		C(+)	T(-)		

H does not like Math from that condition Case-2 will be eliminated. Case-1 is continued. A does not like physics. W and U are the wife of A and B respectively. D does not like the same subject which like by F, who married with P.

**Case-1**

MATH		PHYSICS		CHEMISTRY	
B(+)	U(-)	C(+)	T(-)	E(+)	
F(+)	P(-)	H(+)		G(+)	S(-)
A(+)	W(-)	D(+)			

Now from the rest conditions, H is neither married with T nor Q. E is neither the husband of Q nor V. The final arrangement will be-

**Case-1**

MATH		PHYSICS		CHEMISTRY	
B(+)	U(-)	C(+)	T(-)	E(+)	R(-)
F(+)	P(-)	H(+)	V(-)	G(+)	S(-)
A(+)	W(-)	D(+)	Q(-)		

**S33. Ans.(d)**

**Sol.** From the given conditions, B and F like same subject but not chemistry. C likes Physics and married with T. E likes the same subject with only G, who married with S. G does not like Math. So, we get.

**Case-1**

MATH		PHYSICS		CHEMISTRY	
B(+)		C(+)	T(-)	E(+)	
F(+)				G(+)	S(-)

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**BILINGUAL**

**Case-2**

MATH		PHYSICS		CHEMISTRY	
		B(+)		E(+)	
		F(+)		G(+)	S(-)
		C(+)	T(-)		

H does not like Math from that condition Case-2 will be eliminated. Case-1 is continued. A does not like physics. W and U are the wife of A and B respectively. D does not like the same subject which like by F, who married with P.

**Case-1**

MATH		PHYSICS		CHEMISTRY	
B(+)	U(-)	C(+)	T(-)	E(+)	
F(+)	P(-)	H(+)		G(+)	S(-)
A(+)	W(-)	D(+)			

Now from the rest conditions, H is neither married with T nor Q. E is neither the husband of Q nor V. The final arrangement will be-

**Case-1**

MATH		PHYSICS		CHEMISTRY	
B(+)	U(-)	C(+)	T(-)	E(+)	R(-)
F(+)	P(-)	H(+)	V(-)	G(+)	S(-)
A(+)	W(-)	D(+)	Q(-)		

**S34. Ans.(b)**

**Sol.** From the given conditions, B and F like same subject but not chemistry. C likes Physics and married with T. E likes the same subject with only G, who married with S. G does not like Math. So, we get.

**Case-1**

MATH		PHYSICS		CHEMISTRY	
B(+)		C(+)	T(-)	E(+)	
F(+)				G(+)	S(-)

**Case-2**

MATH		PHYSICS		CHEMISTRY	
		B(+)		E(+)	
		F(+)		G(+)	S(-)
		C(+)	T(-)		

H does not like Math from that condition Case-2 will be eliminated. Case-1 is continued. A does not like physics. W and U are the wife of A and B respectively. D does not like the same subject which like by F, who married with P.

**Case-1**

MATH		PHYSICS		CHEMISTRY	
B(+)	U(-)	C(+)	T(-)	E(+)	
F(+)	P(-)	H(+)		G(+)	S(-)
A(+)	W(-)	D(+)			

Now from the rest conditions, H is neither married with T nor Q. E is neither the husband of Q nor V. The final arrangement will be-

**Case-1**

MATH		PHYSICS		CHEMISTRY	
B(+)	U(-)	C(+)	T(-)	E(+)	R(-)
F(+)	P(-)	H(+)	V(-)	G(+)	S(-)
A(+)	W(-)	D(+)	Q(-)		

**S35. Ans.(a)**

**Sol.** From the given conditions, B and F like same subject but not chemistry. C likes Physics and married with T. E likes the same subject with only G, who married with S. G does not like Math. So, we get.

**Case-1**

MATH		PHYSICS		CHEMISTRY	
B(+)		C(+)	T(-)	E(+)	
F(+)				G(+)	S(-)

**Case-2**

MATH		PHYSICS		CHEMISTRY	
		B(+)		E(+)	
		F(+)		G(+)	S(-)
		C(+)	T(-)		

H does not like Math from that condition Case-2 will be eliminated. Case-1 is continued. A does not like physics. W and U are the wife of A and B respectively. D does not like the same subject which like by F, who married with P.

**Case-1**

MATH		PHYSICS		CHEMISTRY	
B(+)	U(-)	C(+)	T(-)	E(+)	
F(+)	P(-)	H(+)		G(+)	S(-)
A(+)	W(-)	D(+)			

Now from the rest conditions, H is neither married with T nor Q. E is neither the husband of Q nor V. The final arrangement will be-

**Case-1**

MATH		PHYSICS		CHEMISTRY	
B(+)	U(-)	C(+)	T(-)	E(+)	R(-)
F(+)	P(-)	H(+)	V(-)	G(+)	S(-)
A(+)	W(-)	D(+)	Q(-)		

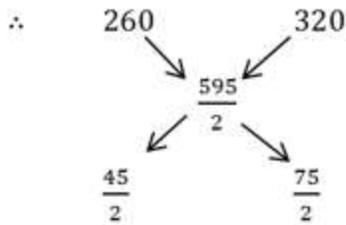
**S36. Ans.(a)****Sol.**

$$\text{Simple interest} = \frac{3}{20} \times 18000 = 2700$$

$$R = \frac{2700 \times 100 \times 2}{18000 \times 5} = 6\%$$

**S37. Ans.(c)****Sol.**

$$\begin{aligned} \text{Cost price of mixture} &= 357 \times \frac{100}{120} \\ &= \text{Rs } \frac{595}{2} \end{aligned}$$



$$\frac{x}{(x+8)} = \frac{3}{5} \Rightarrow x = 12 \text{ kg}$$

**S38. Ans.(e)**

**Sol.**

$$40 \times P = 75 \times Q$$

$$\Rightarrow 8P = 15Q$$

$$\text{Required percent} = \frac{15 \times 1.5Q}{20Q} \times 100 = 112 \frac{1}{2} \%$$

**S39. Ans.(b)**

**Sol.**

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

ATQ

$$(x + y) - (x - y) = 5$$

$$\Rightarrow y = 2.5 \text{ km/hr}$$

$$x = 2.5 \times 3.80 = 9.5 \text{ km/hr}$$

$$\text{required time} = \frac{42}{(9.5+2.5)} + \frac{31.5}{(9.5-2.5)} = 8 \text{ hr}$$

**S40. Ans.(d)**

**Sol.**

Let present age of Ayush be  $x$  years  
and that of Veer be  $y$  years

ATQ,

$$\frac{x+1}{y-5} = \frac{1}{1}$$

$$\Rightarrow x - y = -6 \quad \dots(i)$$

And,

$$x + y = 54 \quad \dots(ii)$$

From (i) and (ii)

$$x = 24 \text{ years and } y = 30 \text{ years}$$

$$\text{Required ratio} = \frac{30}{24} = 5 : 4$$

**S41. Ans.(a)**

**Sol.**

$$\frac{85}{100} \times ? \times 6755 = 3281$$

$$\Rightarrow ? = \frac{3281 \times 100}{85 \times 6755} = \frac{4}{7}$$

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**S42. Ans.(d)**

**Sol.**

$$\sqrt[3]{?} \times 13 = 91$$
$$\Rightarrow ? = (7)^3 = 343$$

**S43. Ans.(c)**

**Sol.**

$$\sqrt{9409} - \sqrt{1156} = 3339 \div ?$$
$$\Rightarrow 3339 \div ? = 97 - 34 = 63$$
$$\Rightarrow ? = \frac{3339}{63} = 53$$

**S44. Ans.(a)**

**Sol.**

$$\left(\frac{320}{100} \times 825\right) \div ? = 48$$
$$\Rightarrow \frac{2640}{48} = ?$$
$$\Rightarrow ? = 55$$

**S45. Ans.(b)**

**Sol.**

$$216 \div 12 + ? = 55$$
$$\Rightarrow ? = 37$$

**S46. Ans.(b)**

**Sol.**

Required number of male candidates  
from UP & Maharashtra together

$$= \frac{3}{4} \times 16400 + \frac{4}{7} \times 9800$$
$$= 12300 + 5600$$
$$= 17900$$

**S47. Ans.(b)**

**Sol.**

Required difference

$$= \left(\frac{1}{2} \times 12400 + \frac{5}{8} \times 12800\right) - \left(\frac{1}{2} \times 12400 + \frac{3}{8} \times 12800\right)$$
$$= \frac{2}{8} \times 12800$$
$$= 3200$$



**S48. Ans.(a)**

**Sol.**

Male candidate qualified the SBI clerk  
prelims exam from Gujrat =  $\frac{9}{16} \times 6400$   
= 3600

Male candidates qualified the SBI clerk  
prelims exam from Maharashtra =  $\frac{4}{7} \times 9800$   
= 5600

∴ Required percentage =  $\frac{3600}{5600} \times 100$   
=  $64\frac{2}{7}\%$

**S49. Ans.(c)**

**Sol.**

Required average

=  $\frac{1}{5} \times (12400 + 16400 + 9800 + 12800 + 6400)$   
=  $\frac{1}{5} \times 57800$   
= 11,560

**S50. Ans.(a)**

**Sol.**

Female candidates qualified the SBI clerk  
prelims exam from UP =  $\frac{1}{4} \times 16400$   
= 4100

Female candidates qualified the SBI clerk  
prelims exam from Bihar =  $\frac{3}{8} \times 12800$   
= 4800

∴ Required percentage =  $\frac{4800-4100}{4800} \times 100$   
=  $\frac{700}{48}\%$  =  $\frac{175}{12}\%$  =  $14\frac{7}{12}\%$

**S51. Ans.(c)**

**Sol.**

Let the length and breadth be 6x cm  
and 5x cm respectively

ATQ,

$$\frac{2(6x+5x)}{6x \times 5x} = \frac{2}{15} \Rightarrow \frac{22x}{30x^2} = \frac{2}{15}$$

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**BILINGUAL**

$$\Rightarrow 330 = 60x$$

$$\Rightarrow x = 5.5$$

Length = 33 cm, breadth =  $5x = 5 \times 5.5 = 27.5$  cm

Perimeter of rectangle =  $2(33 + 27.5) = 121$  cm

Side of square =  $\sqrt{121} = 11$  cm

Perimeter of square = 44 cm

### S52. Ans.(a)

**Sol.**

Let the cost price of pen be Rs.  $x$ .

Then, cost price of pencil = Rs  $(x-8)$

ATQ,

$$x \times \frac{150}{100} = (x - 8) \times \frac{250}{100}$$

$$\Rightarrow x = 20$$

C.P. of pen = Rs. 20

### S53. Ans.(e)

**Sol.**

Let efficiency of A be  $3x$  units/day

Then, that of B =  $2x$  units/day

Total work =  $3x \times 36 = 108x$  units

C does  $\left(1 - \frac{7}{9}\right)$  th i.e.  $\frac{2}{9}$  th of work in 24 days

Whole work will be completed by C

in  $24 \times \frac{9}{2} = 108$  days

Efficiency of C =  $\frac{108x}{108} = 1x$  unit/day

Required time =  $\frac{108x}{3x+2x+1x} = 18$  days



### S54. Ans.(c)

**Sol.**

On keeping the vowels together, we get *BNTUUU*

Number of arrangements

$$= 4!$$

$$= 24$$

### S55. Ans.(e)

**Sol.**

$$X : Y : Z = 8 : 12 : 15$$

Let X, Y and Z be  $8a$ ,  $12a$  and  $15a$  respectively.

ATQ

$$\frac{8a+12a+15a}{3} = 105$$

$$\Rightarrow a=9$$

$$X + Z - Y = (23 - 12) \times 9 = 99$$

**S56. Ans.(d)**

**Sol.**

**Pattern of series –**

$$156 - 4 = 152$$

$$152 + 8 = 160$$

$$160 - 16 = 144$$

$$? = 144 + 32 = 176$$

$$176 - 64 = 112$$

**S57. Ans.(b)**

**Sol.**

**Pattern of series –**

$$4 \times 0.5 + 0.5 = 2.5$$

$$2.5 \times 1 + 1.5 = 4$$

$$4 \times 1.5 + 2.5 = 8.5$$

$$8.5 \times 2 + 3.5 = 20.5$$

$$? = 20.5 \times 2.5 + 4.5 = 55.75$$

**S58. Ans.(a)**

**Sol.**

**Pattern of series –**

$$56 + 288 = 344$$

$$344 + 144 = 488$$

$$? = 488 + 72 = 560$$

$$560 + 36 = 596$$

$$596 + 18 = 614$$



**S59. Ans.(a)**

**Sol.**

**Pattern of series –**

$$912 + 9^3 = 1641$$

$$1641 - 7^3 = 1298$$

$$1298 + 5^3 = 1423$$

$$? = 1423 - 3^3 = 1396$$

$$1396 + 1^3 = 1397$$

**S60. Ans.(b)**

**Sol.**

**Pattern of series –**

$$145 + 11 = 156$$

$$156 - 13 = 143$$

$$143 + 15 = 158$$

$$? = 158 - 17 = 141$$

$$141 + 19 = 160$$

**S61. Ans.(a)**

**Sol. Pattern of series -**

$$\begin{aligned} ? &= 84 \times 7 = 588 \\ 588 \div 6 &= 98 \\ 98 \times 5 &= 490 \\ 490 \div 4 &= 122.5 \\ 122.5 \times 3 &= 367.5 \end{aligned}$$

**S62. Ans.(d)**

**Sol.**

Let efficiency of B be '5x units /day'.

$$\text{So, efficiency of A} = 5x \times \frac{40}{100} = 2x \text{ units/day}$$

$$\text{And E's efficiency} = 2x \times \frac{300}{100} = 6x \text{ units/day}$$

$$\text{Total work} = 2x \times 45 = 90x \text{ units}$$

$$\text{Now, D's efficiency} = \frac{90x}{30} = 3x \text{ units/day}$$

$$\text{Hence, C's efficiency} = 3x \times \frac{150}{100} = 4.5x \text{ units/day.}$$

ATQ,

$$90x = 900$$

$$x = 10 \text{ units}$$

$$\text{So, efficiency of A} = 2x = 20 \text{ units/day}$$

$$\text{B's efficiency} = 5x = 50 \text{ units/day}$$

$$\text{C's efficiency} = 4.5x = 45 \text{ units/day}$$

$$\text{D's efficiency} = 3x = 30 \text{ units/day}$$

$$\text{And E's efficiency} = 6x = 60 \text{ units/day}$$

$$\text{B's new efficiency} = 50 \times \frac{80}{100} = 40 \text{ units/day}$$

$$\text{Now, required days} = \frac{\frac{90}{100} \times 900}{(40 + 20)}$$

$$= \frac{810}{60} = 13.5 \text{ days}$$

**S63. Ans.(b)**

**Sol.**

Let efficiency of B be '5x units /day'.

$$\text{So, efficiency of A} = 5x \times \frac{40}{100} = 2x \text{ units/day}$$

$$\text{And E's efficiency} = 2x \times \frac{300}{100} = 6x \text{ units/day}$$

$$\text{Total work} = 2x \times 45 = 90x \text{ units}$$

$$\text{Now, D's efficiency} = \frac{90x}{30} = 3x \text{ units/day}$$

$$\text{Hence, C's efficiency} = 3x \times \frac{150}{100} = 4.5x \text{ units/day.}$$

ATQ,

$$90x = 900$$

$$x = 10 \text{ units}$$

$$\text{So, efficiency of A} = 2x = 20 \text{ units/day}$$

$$\text{B's efficiency} = 5x = 50 \text{ units/day}$$

$$\text{C's efficiency} = 4.5x = 45 \text{ units/day}$$

$$\text{D's efficiency} = 3x = 30 \text{ units/day}$$

$$\text{And E's efficiency} = 6x = 60 \text{ units/day}$$

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$$C's \text{ new efficiency} = 45 \times \frac{60}{100} = 27 \text{ units/day}$$

$$E's \text{ new efficiency} = 60 \times \frac{65}{100} = 39 \text{ units/day}$$

$$\text{Required difference} = 39 \times 12 - 27 \times 12$$

$$= 468 - 324$$

$$= 144 \text{ units}$$

**S64. Ans.(d)**

**Sol.**

Let efficiency of B be '5x units /day'.

$$\text{So, efficiency of A} = 5x \times \frac{40}{100} = 2x \text{ units/day}$$

$$\text{And E's efficiency} = 2x \times \frac{300}{100} = 6x \text{ units/day}$$

$$\text{Total work} = 2x \times 45 = 90x \text{ units}$$

$$\text{Now, D's efficiency} = \frac{90x}{30} = 3x \text{ units/day}$$

$$\text{Hence, C's efficiency} = 3x \times \frac{150}{100} = 4.5x \text{ units/day.}$$

ATQ,

$$90x = 900$$

$$x = 10 \text{ units}$$

$$\text{So, efficiency of A} = 2x = 20 \text{ units/day}$$

$$\text{B's efficiency} = 5x = 50 \text{ units/day}$$

$$\text{C's efficiency} = 4.5x = 45 \text{ units/day}$$

$$\text{D's efficiency} = 3x = 30 \text{ units/day}$$

$$\text{And E's efficiency} = 6x = 60 \text{ units/day}$$

Required days

$$= \frac{900}{(50 + 45 + 30)} = \frac{900}{125} = \frac{36}{5} \text{ days} = 7\frac{1}{5} \text{ days}$$



**S65. Ans.(e)**

**Sol.**

Let efficiency of B be '5x units /day'.

$$\text{So, efficiency of A} = 5x \times \frac{40}{100} = 2x \text{ units/day}$$

$$\text{And E's efficiency} = 2x \times \frac{300}{100} = 6x \text{ units/day}$$

$$\text{Total work} = 2x \times 45 = 90x \text{ units}$$

$$\text{Now, D's efficiency} = \frac{90x}{30} = 3x \text{ units/day}$$

$$\text{Hence, C's efficiency} = 3x \times \frac{150}{100} = 4.5x \text{ units/day.}$$

ATQ,

$$90x = 900$$

$$x = 10 \text{ units}$$

$$\text{So, efficiency of A} = 2x = 20 \text{ units/day}$$

$$\text{B's efficiency} = 5x = 50 \text{ units/day}$$

$$\text{C's efficiency} = 4.5x = 45 \text{ units/day}$$

$$\text{D's efficiency} = 3x = 30 \text{ units/day}$$

$$\text{And E's efficiency} = 6x = 60 \text{ units/day}$$

Total work completed in 3 days

$$= 60 + 20 + 45 = 125 \text{ units}$$

Total work completed in 15 days

$$= \frac{15}{3} \times 125 = 625 \text{ units}$$

Remaining work =  $630 - 625 = 5$  units

So, remaining work will be completed

$$\text{by } E = \frac{5}{60} = \frac{1}{12} \text{ days}$$

$$\text{So, required days} = 15 + \frac{1}{12} = 15\frac{1}{12} \text{ days}$$

### S66. Ans.(b)

Sol.

Let efficiency of B be '5x units /day'.

$$\text{So, efficiency of A} = 5x \times \frac{40}{100} = 2x \text{ units/day}$$

$$\text{And E's efficiency} = 2x \times \frac{300}{100} = 6x \text{ units/day}$$

$$\text{Total work} = 2x \times 45 = 90x \text{ units}$$

$$\text{Now, D's efficiency} = \frac{90x}{30} = 3x \text{ units/day}$$

$$\text{Hence, C's efficiency} = 3x \times \frac{150}{100} = 4.5x \text{ units/day.}$$

ATQ,

$$90x = 900$$

$$x = 10 \text{ units}$$

$$\text{So, efficiency of A} = 2x = 20 \text{ units/day}$$

$$\text{B's efficiency} = 5x = 50 \text{ units/day}$$

$$\text{C's efficiency} = 4.5x = 45 \text{ units/day}$$

$$\text{D's efficiency} = 3x = 30 \text{ units/day}$$

$$\text{And E's efficiency} = 6x = 60 \text{ units/day}$$

Work completed by D in 14 days

$$= 14 \times 30 = 420 \text{ units}$$

Work completed by B in 8 days

$$= 8 \times 50 = 400 \text{ units}$$

$$\text{So, required\%} = \frac{420}{400} \times 100 = 105\%$$

### S67. Ans.(b)

Sol.

$$18 \times 20 + 49 + \frac{8}{100} \times 400 = (?)^2$$

$$360 + 49 + 32 = (?)^2$$

$$(?) = \sqrt{441}$$

$$(?) = 21$$

### S68. Ans.(a)

Sol.  $2719 + 37 - 1971 = 5 \times ?$

$$? = \frac{785}{5}$$

$$? = 157$$

**S69. Ans.(d)**

**Sol.**

$$144 \times 6 \times \frac{20}{100} \times 740 \times \frac{1}{16} = ? \times 999$$
$$? = \frac{36 \times 6 \times 37}{999}$$
$$? = 8$$

**S70. Ans.(b)**

**Sol.**

$$\frac{62}{100} \times 1600 - 576 = ? \times 8$$
$$\frac{992 - 576}{8} = ?$$
$$? = 52$$

**S71. Ans.(d)**

**Sol.** Option (d) which comprises of both the options i.e. (b) and (c) is the most suitable choice. The answer can be inferred from the second paragraph, where in the first line it is given the ongoing trade war has already created turbulence and uncertainty in global markets. This is bound to affect the nature and direction of global trade flows.

Where is it written that there is a trade war between India and China, or does 'the ongoing trade war...' means that there is a trade war between India and China?

**S72. Ans.(c)**

**Sol.** Only option (c) is the appropriate answer. This answer is also relevant in context of the paragraph. Refer to paragraph 2 where it is mentioned that, "Modern production networks stretch across manufacturing economies and trade agreements are important institutional mechanisms to facilitate countries' access to such value chains. India must look for opportunities to hook into them."

**S73. Ans.(e)**

**Sol.** Option (e) best narrates the answer asked in the question. India's reform agenda has pervaded in all the spheres of economy. This is evident from all the above-mentioned examples in the options. Refer to third paragraph where it is given that India's reform agenda pervades all spheres of the economy. Positive developments have been reported in trade facilitation, ease of doing business, helped along by systemic reforms such as the goods and services tax, strengthening and expansion of infrastructure and greater focus on technology facilitation. Hence the answer.

**S74. Ans.(d)**

**Sol.** Option (d) represents the answer of the given question most congruously as it consists of options (a) and (b). The answer can be deduced from the third paragraph where it is given that India also has leverage in the form of its potential market size. It must, therefore, negotiate with greater confidence and craftsmanship and not be swayed by the threats of its partners. India's exclusion from RCEP will cost others heavily.

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**S75. Ans.(b)**

**Sol.** Only option (b) is false according to the given passage. Refer to the second paragraph where it is given that modern production networks stretch across manufacturing economies and trade agreements are important institutional mechanisms to facilitate countries' access to such value chains. India must look for opportunities to hook into them. Rest all of the given options are true.

**S76. Ans.(a)**

**Sol.** Wary means cautious.

Prudent means the same.

Naïve means innocent.

Gullible means credulous.

Inadvertent means unintentional.

Indiscreet means unwise.

**S77. Ans.(c)**

**Sol.** Conducive means making a certain situation or outcome likely or possible.

Contributory means the same.

Baneful means harmful.

Adverse means unfavorable.

**S78. Ans.(a)**

**Sol.** Turbulence means a state of conflict or confusion.

Turmoil means a state of great disturbance, confusion, or uncertainty.

Composure means the state or feeling of being calm and in control of oneself.

Serenity means the state of being calm, peaceful, and untroubled.

Tranquility means the quality or state of being tranquil; calm.

**S79. Ans.(c)**

**Sol.** Imminent means about to happen.

Distant is the only opposite of the given word.

Impending means upcoming.

Forthcoming means near.

Looming means emerging.

Menacing means threatening.

**S80. Ans.(b)**

**Sol.** Rigorous means extremely thorough and careful.

Lenient means benevolent, gentle.

Meticulous means very careful and precise.

Austere means severe or strict in manner or attitude.

**S81. Ans.(a)**

**Sol.** The error lies in part (B) of the sentence. It is to be noted that adjectives denoting attributes usually occur in a specific order. Generally, the adjective order is: (i) Quantity or number, (ii) Quality or opinion (iii) Size (iv) Shape (v) Age (vi) Color (vii) Proper adjective (often nationality, other place of origin, or material) (viii) Purpose or qualifier. Thus correct phrase should be “big old green antique car”. All the other parts are grammatically correct and contextually meaningful. Hence, option (a) is the most suitable answer choice.

**S82. Ans.(c)**

**Sol.** The error lies in the part (D) of the sentence. The word *each* is used when there are *only two* objects in question. While when the quantifier refers to *more than two* objects, *each and every* can sometimes be used interchangeably. Therefore, the correct phrase should be “and on each of his” as there can be only two little fingers. All the other parts are grammatically correct and contextually meaningful. Hence, option (c) is the most viable answer choice.

**S83. Ans.(b)**

**Sol.** The error lies in part (B) of the sentence. In order to correct part (B) of the sentence, replace *authority* by *authorities* or add article ‘*a*’ before *certain*. It should be noted that after ‘*certain*’, a plural noun takes place, while after ‘*a certain*’ a noun with *singular* number (countable) takes place. All the other parts are grammatically correct and contextually meaningful. Hence, option (b) is the most viable answer choice.

**S84. Ans.(b)**

**Sol.** The error lies in part (B) of the sentence. Not ALL adjectives and adverbs can have a comparative or superlative form. No type of comparison is possible with certain adjectives and adverbs. They cannot show a greater or lesser amount, so they can only have one form. Some of these words are perfect, unique, dead, impossible, and infinite. Therefore, “the most” should be omitted in part (B) of the sentence. All the other parts are grammatically correct and contextually meaningful. Hence, option (b) is the most viable answer choice.

**S85. Ans.(e)**

**Sol.** All the parts of the sentence along with the highlighted part is grammatically correct and contextually meaningful and thus do not require any corrections. Hence, option (e) is the most viable answer choice.

**S86. Ans.(c)**

**Sol.** is the most appropriate choice to be filled in the sentence. According to the context of the sentence deeper is the only word that fits in the blank.

Converging means tending to meet at a point.

Managerial means relating to management or managers.

Preclude means prevent from happening; make impossible.

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**S87. Ans.(b)**

**Sol.** Option (b) is the most appropriate choice to be filled in the blank. According to the context of the sentence, the word that fits most suitably in the blank is empower. This is because modern science and technology has empowered which means boosted human beings to control natural forces more effectively. Empower means make (someone) stronger and more confident, especially in controlling their life and claiming their rights.

Interprets means explain the meaning of (information or actions).

Adjourns means put off or postpone (a resolution or sentence)

Reschedule means change the time of (a planned event).

**S88. Ans.(c)**

**Sol.** Option (c) is the most suitable choice to be filled in the blank. According to the sentence and the usage, terminate is the most appropriate word to be used as the employer was threatened to end the business relationship he had with the customer. Rest all the words do not fit in the blank.

Terminate means bring to an end.

Aspect means the side of a building facing a particular direction.

Ponder means think about (something) carefully, especially before making a decision or reaching a conclusion.

But ponder will take the preposition 'over'. So it does not fit here.

Appease means assuage or satisfy (a demand or a feeling).

**S89. Ans.(d)**

**Sol.** Profound is the most appropriate option to be filled in the blank. This is so as being a college student doing a part time job too can only have a positive effect which is described by the word profound among all of the given options.

Profound means very great or intense.

Disfigure means spoil the appearance of.

Yearning means a feeling of intense longing for something.

Aloof means not friendly or forthcoming ; cool and distant.

**S90. Ans.(c)**

**Sol.** Resistance is the most suitable option that fits in the blank among all of the given options. As lowering resistance to disease is the result of reduction in white blood cell count.

Resistance means the refusal to accept or comply with something.

Magnificence means glory, opulence.

Reliability means the quality of being trustworthy or of performing consistently well.

**S91. Ans.(c)**

**Sol.** Option (c) is the most suitable replacement of the bold part. The word who can only be used when it is the subject of a verb. Whom is like him, her, and them because it is never the subject of a verb. Whom is an object. Thus *whom I esteem more* will be used.

**S92. Ans.(b)**

**Sol.** Option (b) is the most appropriate choice to be used as the replacement of the bold part. In a simple present sentence where he, she, it or a name is the subject, verbs can end in -s or -es depending on the way the verb end. Option (c) is not correct as Rise is intransitive verb and does not take an object. What this means is that you use the verb rise when something moves upwards by itself. Raise, on the other hand, is a transitive verb that requires that the subject act upon an object. In other words, something raises something else.

**S93. Ans.(d)**

**Sol.** Option (d) is the most suitable choice to be used as the replacement of the bold part. The correct solution will be "More ammonium sulphate solution is being recovered in the process of distilling oil shale." With and through will not go together as two prepositions do not go hand in hand with reference to the context of the sentence. Hence 'being recovered in' will be used.

**S94. Ans.(b)**

**Sol.** Option (b) is the most appropriate choice. 'There were too many people' will be used instead of 'There was too many people' because the verb that is used after 'there' depends on the number or person of noun or pronoun. For example;

There is a table lamp on the table.

There are five books on the table.

**S95. Ans.(c)**

**Sol.** Option (c) is the correct choice. 'Lend me few rupees' will be replaced by 'lent me a few rupees' because few, when used without a preceding 'a', means "very few" or "none at all". On the other hand, a few is used to indicate "not a large number". The difference is subtle, yet there are instances where the two can mean completely opposite things. Also in the given option has/have + V3 structure has to be followed.

**S96. Ans.(b)**

**Sol.** Negotiation is the appropriate word to be used in the blank. As in the line the author means to say that our lives are a discussion aimed at reaching an agreement between mind, body and spirit.

Scolding means rebuking angrily.

Resolving means settling or finding a solution to.

**S97. Ans.(c)**

**Sol.** Option (c) is the most appropriate word to be used in the blank.

Vital means absolutely necessary; essential.

Tedious means too long, slow, or dull; tiresome or monotonous.

Abandoning means ceasing to support or look after (someone); deserting.

Contentious means causing or likely to cause an argument; controversial.

Swift means happening quickly or promptly.

**S98. Ans.(e)**

**Sol.** Option (e) is the most appropriate word to be filled in the blank.

Rest all the words do not fit in the context of the sentence.

Imposed means forced on someone.

Embarrassed means awkward.

Located means discover the exact place or position of.

Collided means came into conflict or opposition.

Annoyed means slightly angry; irritated

**S99. Ans.(a)**

**Sol.** The most suitable option to be filled in the blank is option (a). Our senses can only perceive implicit knowledge, energy sensitivities and intuition. Rest all of the options are irrelevant in context of the paragraph.

Perceived means became aware or conscious of (something).

Consoled means comforted.

Surrendered means capitulated.

Extreme means very large in amount or degree:

Insisted means persisted in (doing something).

**S100. Ans.(c)**

**Sol.** Option (c) is the most appropriate choice to be filled in the blank. Crucial means of great importance. This word suits as our mind body spirit is constantly trying to convey some important information but we lose track of it which creates havoc in our lives.

Humble means having or showing a modest or low estimate of one's importance.

Ruined means reduced (a building or place) to a state of decay, collapse, or disintegration.

Civilized means well mannered.

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