

BOOKS



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Solutions

S1. Ans.(a)

Sol. There is a gap of three months between the month in which A opened the shop and in which C opened the shop. C opened shop after A. F and D opened shop after C but not in the month next to each other. G sells eraser. The one who sells pencil opened shop just before the month in which no shop was opened. There is a gap of three months between the month in which G opened the shop and in which F opened the shop. The one who sells pencil opened shop just before the month in which no shop was opened. F does not sell pencil. G did not open shop in the month which is not next to the month in which no shop is opened.

	January	February	March	April	May	June	July	August
Case1	A	G (eraser)	(pencil)	-----	C	F		D
Case2	A			G (eraser)	C	D (pencil)	-----	F
Case3	A(pencil)	-----		G (eraser)	C	D		F

C and D do not sell duster or sheets. E opened shop before B. The seller of sheet opened shop just before the month in which seller of duster opened shop. The seller of duster did not open shop just before the month in which seller of eraser opened shop. The one who sells marker opened shop before the one who sells cutter but after the one who sells pens.

	January	February	March	April	May	June	July	August
Case1	A (pens)	G (eraser)	E (pencil)	-----	C (marker)	F (sheet)	B (duster)	D (cutter)
Case2	A (sheet)	E (duster)	B (pens)	G (eraser)	C (marker)	D (pencil)	-----	F (cutter)
Case3	A (pencil)	-----	E (pens)	G (eraser)	C (marker)	D (cutter)	B (sheet)	F (duster)

At least two persons opened shop between the month in which seller of pens and marker opened the shop, so, case2 and case3 gets eliminated. The final arrangement is:

January	February	March	April	May	June	July	August
A (pens)	G (eraser)	E (pencil)	-----	C (marker)	F (sheet)	B (duster)	D (cutter)

S2. Ans.(d)

Sol. There is a gap of three months between the month in which A opened the shop and in which C opened the shop. C opened shop after A. F and D opened shop after C but not in the month next to each other. G sells eraser. The one who sells pencil opened shop just before the month in which no shop was opened. There is a gap of three months between the month in which G opened the shop and in which F opened the shop. The one who sells pencil opened shop just before the month in which no shop was opened. F does not sell pencil. G did not open shop in the month which is not next to the month in which no shop is opened.

	January	February	March	April	May	June	July	August
Case1	A	G (eraser)	(pencil)	-----	C	F		D
Case2	A			G (eraser)	C	D (pencil)	-----	F
Case3	A(pencil)	-----		G (eraser)	C	D		F

C and D do not sell duster or sheets. E opened shop before B. The seller of sheet opened shop just before the month in which seller of duster opened shop. The seller of duster did not open shop just before the month in which seller of eraser opened shop. The one who sells marker opened shop before the one who sells cutter but after the one who sells pens.

	January	February	March	April	May	June	July	August
Case1	A (pens)	G (eraser)	E (pencil)	-----	C (marker)	F (sheet)	B (duster)	D (cutter)
Case2	A (sheet)	E (duster)	B (pens)	G (eraser)	C (marker)	D (pencil)	-----	F (cutter)
Case3	A (pencil)	-----	E (pens)	G (eraser)	C (marker)	D (cutter)	B (sheet)	F (duster)

At least two persons opened shop between the month in which seller of pens and marker opened the shop.so, case2 and case3 gets eliminated. The final arrangement is:

January	February	March	April	May	June	July	August
A (pens)	G (eraser)	E (pencil)	-----	C (marker)	F (sheet)	B (duster)	D (cutter)

S3. Ans.(d)

Sol. There is a gap of three months between the month in which A opened the shop and in which C opened the shop. C opened shop after A. F and D opened shop after C but not in the month next to each other. G sells eraser. The one who sells pencil opened shop just before the month in which no shop was opened. There is a gap of three months between the month in which G opened the shop and in which F opened the shop. The one who sells pencil opened shop just before the month in which no shop was opened. F does not sells pencil. G did not open shop in the month which is not next to the month in which no shop is opened.

	January	February	March	April	May	June	July	August
Case1	A	G (eraser)	(pencil)	-----	C	F		D
Case2	A			G (eraser)	C	D (pencil)	-----	F
Case3	A(pencil)	-----		G (eraser)	C	D		F

C and D do not sell duster or sheets. E opened shop before B. The seller of sheet opened shop just before the month in which seller of duster opened shop. The seller of duster did not open shop just before the month in which seller of eraser opened shop. The one who sells marker opened shop before the one who sells cutter but after the one who sells pens.

	January	February	March	April	May	June	July	August
Case1	A (pens)	G (eraser)	E (pencil)	-----	C (marker)	F (sheet)	B (duster)	D (cutter)
Case2	A (sheet)	E (duster)	B (pens)	G (eraser)	C (marker)	D (pencil)	-----	F (cutter)
Case3	A (pencil)	-----	E (pens)	G (eraser)	C (marker)	D (cutter)	B (sheet)	F (duster)

At least two persons opened shop between the month in which seller of pens and marker opened the shop.so, case2 and case3 gets eliminated. The final arrangement is:

January	February	March	April	May	June	July	August
A (pens)	G (eraser)	E (pencil)	-----	C (marker)	F (sheet)	B (duster)	D (cutter)

S4. Ans.(b)

Sol. There is a gap of three months between the month in which A opened the shop and in which C opened the shop. C opened shop after A. F and D opened shop after C but not in the month next to each other. G sells eraser. The one who sells pencil opened shop just before the month in which no shop was opened. There is a gap of three months between the month in which G opened the shop and in which F opened the shop. The one who sells pencil opened shop just before the month in which no shop was opened. F does not sells pencil. G did not open shop in the month which is not next to the month in which no shop is opened.

	January	February	March	April	May	June	July	August
Case1	A	G (eraser)	(pencil)	-----	C	F		D
Case2	A			G (eraser)	C	D (pencil)	-----	F
Case3	A(pencil)	-----		G (eraser)	C	D		F

C and D do not sell duster or sheets. E opened shop before B. The seller of sheet opened shop just before the month in which seller of duster opened shop. The seller of duster did not open shop just before the month in which seller of eraser opened shop. The one who sells marker opened shop before the one who sells cutter but after the one who sells pens.

	January	February	March	April	May	June	July	August
Case1	A (pens)	G (eraser)	E (pencil)	-----	C (marker)	F (sheet)	B (duster)	D (cutter)
Case2	A (sheet)	E (duster)	B (pens)	G (eraser)	C (marker)	D (pencil)	-----	F (cutter)
Case3	A (pencil)	-----	E (pens)	G (eraser)	C (marker)	D (cutter)	B (sheet)	F (duster)

At least two persons opened shop between the month in which seller of pens and marker opened the shop, so, case2 and case3 gets eliminated. The final arrangement is:

January	February	March	April	May	June	July	August
A (pens)	G (eraser)	E (pencil)	-----	C (marker)	F (sheet)	B (duster)	D (cutter)

S5. Ans.(c)

Sol. There is a gap of three months between the month in which A opened the shop and in which C opened the shop. C opened shop after A. F and D opened shop after C but not in the month next to each other. G sells eraser. The one who sells pencil opened shop just before the month in which no shop was opened. There is a gap of three months between the month in which G opened the shop and in which F opened the shop. The one who sells pencil opened shop just before the month in which no shop was opened. F does not sell pencil. G did not open shop in the month which is not next to the month in which no shop is opened.

	January	February	March	April	May	June	July	August
Case1	A	G (eraser)	(pencil)	-----	C	F		D
Case2	A			G (eraser)	C	D (pencil)	-----	F
Case3	A(pencil)	-----		G (eraser)	C	D		F

C and D do not sell duster or sheets. E opened shop before B. The seller of sheet opened shop just before the month in which seller of duster opened shop. The seller of duster did not open shop just before the month in which seller of eraser opened shop. The one who sells marker opened shop before the one who sells cutter but after the one who sells pens.

	January	February	March	April	May	June	July	August
Case1	A (pens)	G (eraser)	E (pencil)	-----	C (marker)	F (sheet)	B (duster)	D (cutter)
Case2	A (sheet)	E (duster)	B (pens)	G (eraser)	C (marker)	D (pencil)	-----	F (cutter)
Case3	A (pencil)	-----	E (pens)	G (eraser)	C (marker)	D (cutter)	B (sheet)	F (duster)

At least two persons opened shop between the month in which seller of pens and marker opened the shop, so, case2 and case3 gets eliminated. The final arrangement is:

January	February	March	April	May	June	July	August
A (pens)	G (eraser)	E (pencil)	-----	C (marker)	F (sheet)	B (duster)	D (cutter)

S6. Ans.(c)

Sol. The words are coded according to the total number of letters in the word. If the total number of letter is even then it is multiplied by 3 and if it is odd then it is multiplied by 2.

POLICY- $6 \times 3 = 18$

WORLD- $5 \times 2 = 10$

S7. Ans.(e)

Sol. The words are coded according to the total number of letters in the word. If the total number of letter is even then it is multiplied by 3 and if it is odd then it is multiplied by 2.

POLICY- $6 \times 3 = 18$

WORLD- $5 \times 2 = 10$

S8. Ans.(e)

Sol. The words are coded according to the total number of letters in the word. If the total number of letter is even then it is multiplied by 3 and if it is odd then it is multiplied by 2.

POLICY- $6 \times 3 = 18$

WORLD- $5 \times 2 = 10$

S9. Ans.(c)

Sol. The words are coded according to the total number of letters in the word. If the total number of letter is even then it is multiplied by 3 and if it is odd then it is multiplied by 2.

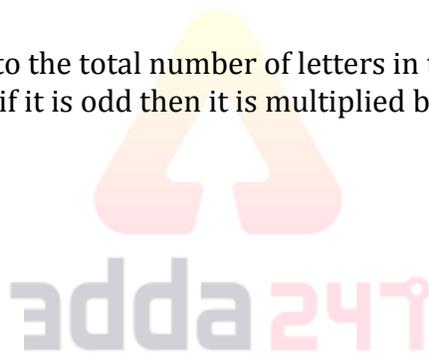
POLICY- $6 \times 3 = 18$

WORLD- $5 \times 2 = 10$

S10. Ans.(e)

Sol.

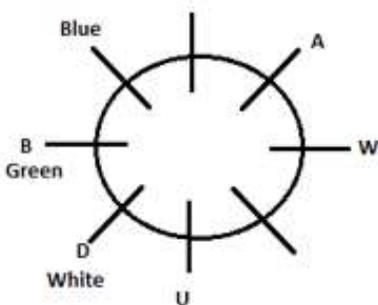
$$\begin{array}{cc}
 X = Y & X = Y \\
 | & | \\
 D - M (-) = L (+) & (+) L - M (-) = D (+)
 \end{array}$$



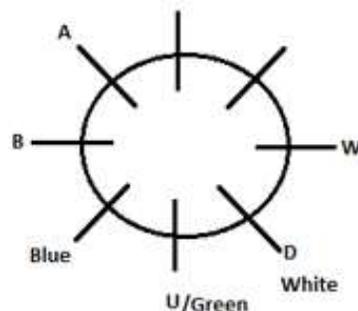
S11. Ans.(b)

Sol. The one who likes White is an immediate neighbor of U. B sits second to the left of U. Only three persons sit between A and the one who likes White. Only one person sits between the one who likes Blue and A. The one who likes Green sits on the immediate right of the one who likes Blue. W sits second to the right of U. D likes White. We have following possibilities-

Case 1



Case 2



Special Offer

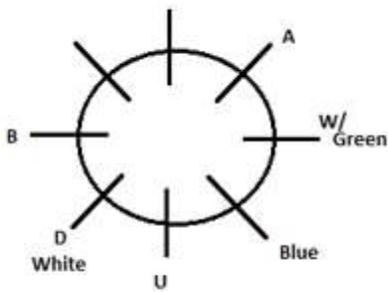
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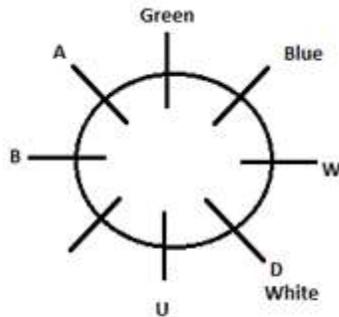
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- 15 Section wise Practice Sets

VALIDITY 1 MONTHS



Case 3

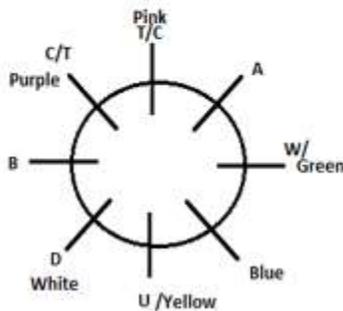
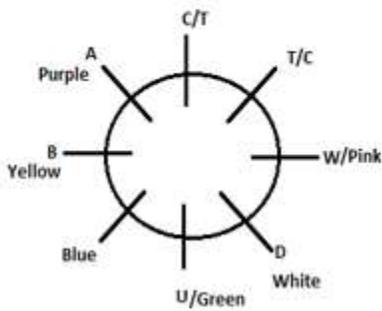


Case 4

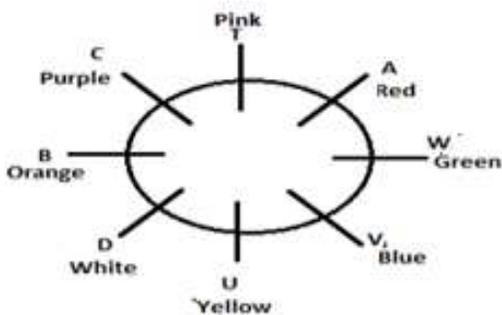
Now, C and T are immediate neighbors of each other. Neither C nor T likes Blue. This will eliminate Case 1 and Case 4. Now, the one who likes Purple sits on the immediate left of B. The one who like Pink sits second to the right of the one who like Green. The one who likes Yellow is an immediate neighbor of the one who like Blue. Now the condition is-

Case 2

Case 3



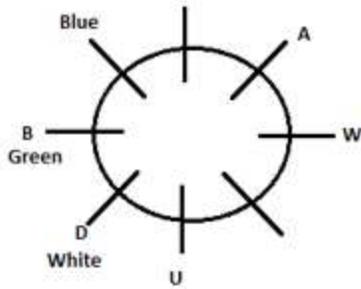
Now, C sits second to the right of the one who like Red. This will eliminate Case 2. So the final arrangement will be-



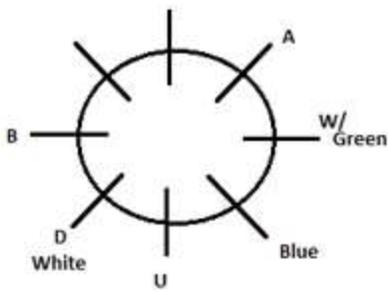
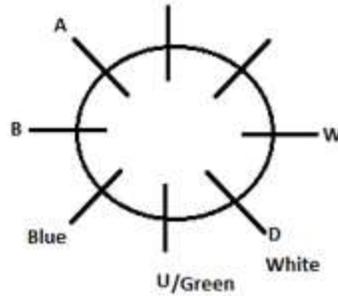
S12. Ans.(e)

Sol. The one who likes White is an immediate neighbor of U. B sits second to the left of U. Only three persons sit between A and the one who likes White. Only one person sits between the one who likes Blue and A. The one who likes Green sits on the immediate right of the one who likes Blue. W sits second to the right of U. D likes White. We have following possibilities-

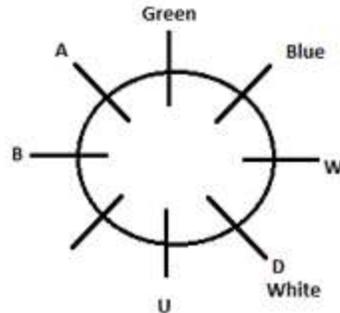
Case 1



Case 2



Case 3

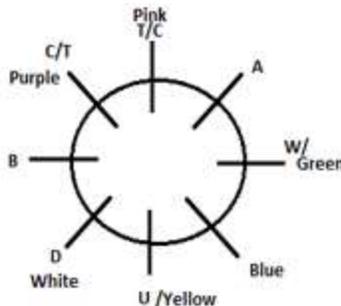
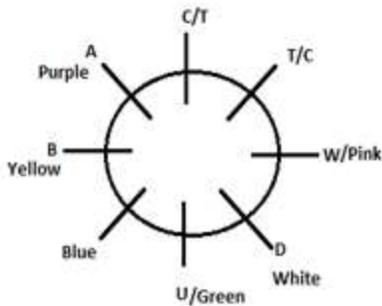


Case 4

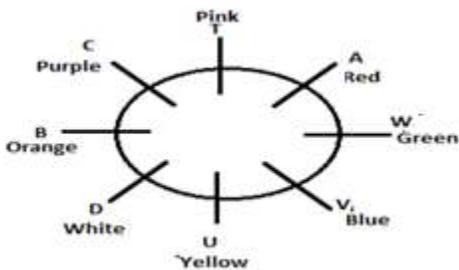
Now, C and T are immediate neighbors of each other. Neither C nor T likes Blue. This will eliminate Case 1 and Case 4. Now, the one who likes Purple sits on the immediate left of B. The one who like Pink sits second to the right of the one who like Green. The one who likes Yellow is an immediate neighbor of the one who like Blue. Now the condition is-

Case 2

Case 3



Now, C sits second to the right of the one who like Red. This will eliminate Case 2. So the final arrangement will be-



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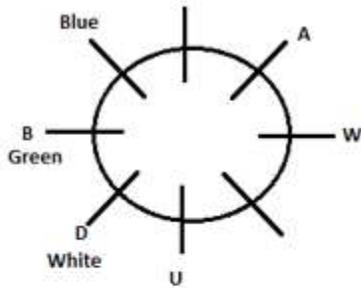
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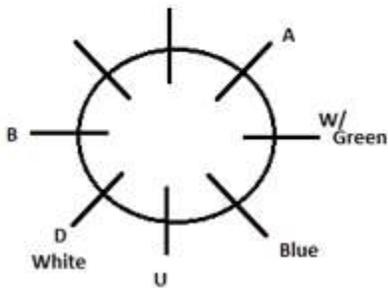
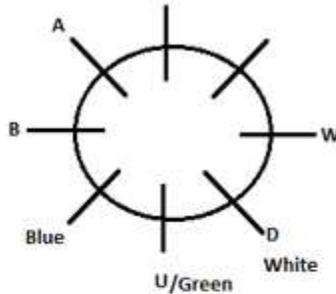
S13. Ans.(c)

Sol. The one who likes White is an immediate neighbor of U. B sits second to the left of U. Only three persons sit between A and the one who likes White. Only one person sits between the one who likes Blue and A. The one who likes Green sits on the immediate right of the one who likes Blue. W sits second to the right of U. D likes White. We have following possibilities-

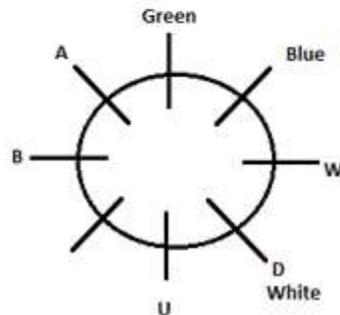
Case 1



Case 2



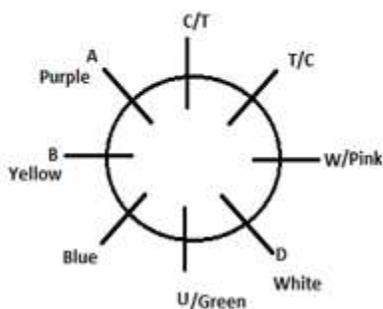
Case 3



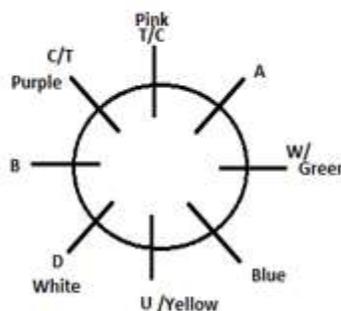
Case 4

Now, C and T are immediate neighbors of each other. Neither C nor T likes Blue. This will eliminate Case 1 and Case 4. Now, the one who likes Purple sits on the immediate left of B. The one who like Pink sits second to the right of the one who like Green. The one who likes Yellow is an immediate neighbor of the one who like Blue. Now the condition is-

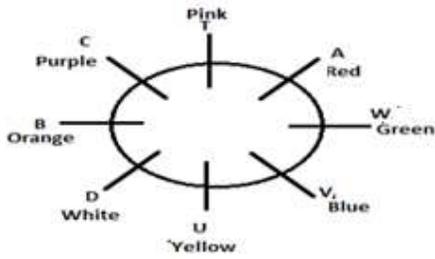
Case 2



Case 3



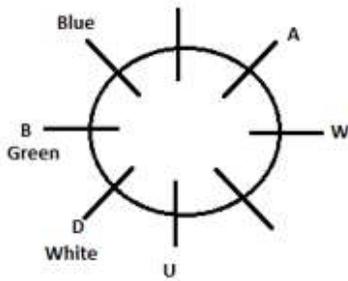
Now, C sits second to the right of the one who like Red. This will eliminate Case 2. So the final arrangement will be-



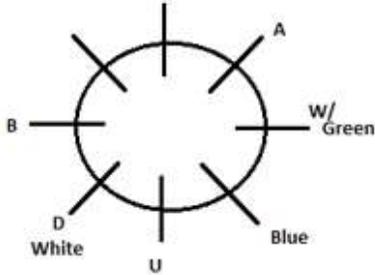
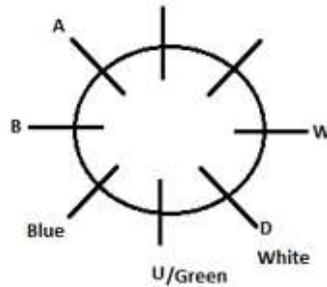
S14. Ans.(e)

Sol. The one who likes White is an immediate neighbor of U. B sits second to the left of U. Only three persons sit between A and the one who likes White. Only one person sits between the one who likes Blue and A. The one who likes Green sits on the immediate right of the one who likes Blue. W sits second to the right of U. D likes White. We have following possibilities-

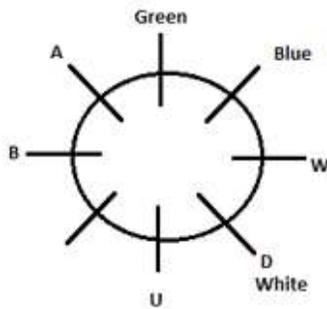
Case 1



Case 2



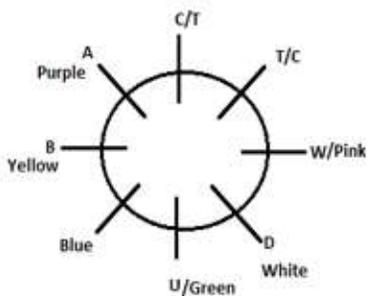
Case 3



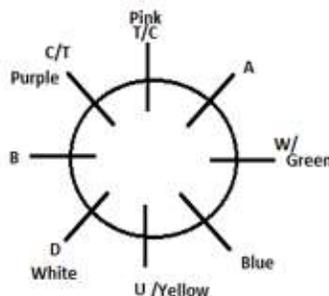
Case 4

Now, C and T are immediate neighbors of each other. Neither C nor T likes Blue. This will eliminate Case 1 and Case 4. Now, the one who likes Purple sits on the immediate left of B. The one who like Pink sits second to the right of the one who like Green. The one who likes Yellow is an immediate neighbor of the one who like Blue. Now the condition is-

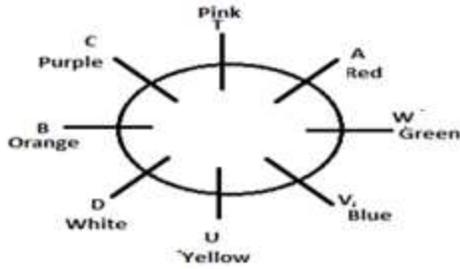
Case 2



Case 3



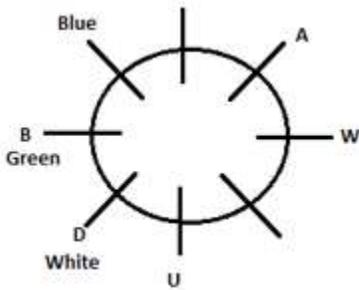
Now, C sits second to the right of the one who like Red. This will eliminate Case 2. So the final arrangement will be-



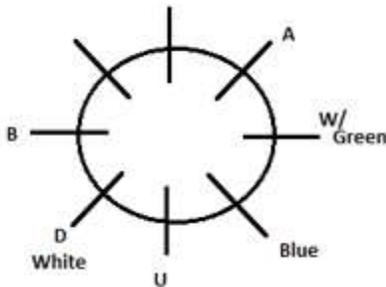
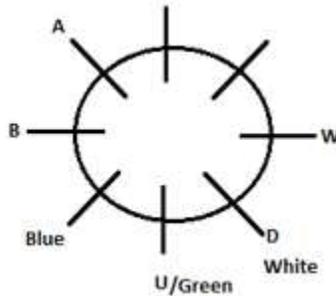
S15. Ans.(e)

Sol. The one who likes White is an immediate neighbor of U. B sits second to the left of U. Only three persons sit between A and the one who likes White. Only one person sits between the one who likes Blue and A. The one who likes Green sits on the immediate right of the one who likes Blue. W sits second to the right of U. D likes White. We have following possibilities-

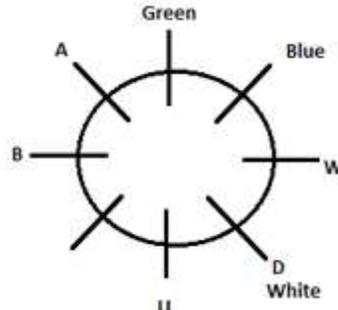
Case 1



Case 2



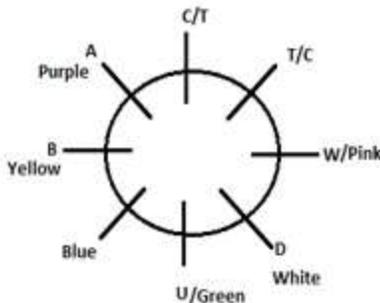
Case 3



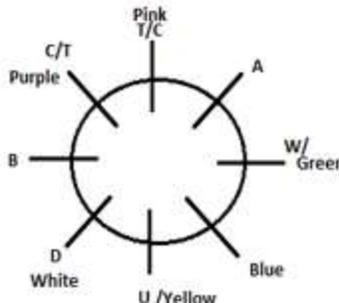
Case 4

Now, C and T are immediate neighbors of each other. Neither C nor T likes Blue. This will eliminate Case 1 and Case 4. Now, the one who likes Purple sits on the immediate left of B. The one who like Pink sits second to the right of the one who like Green. The one who likes Yellow is an immediate neighbor of the one who like Blue. Now the condition is-

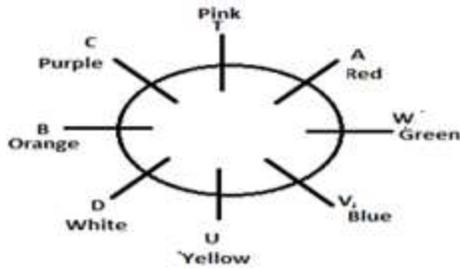
Case 2



Case 3



Now, C sits second to the right of the one who like Red. This will eliminate Case 2. So the final arrangement will be-



S16. Ans.(c)

Sol. Two numbers are arranged in each step from both the end such that even lowest number is arranged at the right end and the highest odd number is arranged at the left end in step I. Similarly second highest odd number is arranged to right end while the second lowest even number is arranged from left end and so on till all numbers are arranged. In next step all the digits of the numbers are added within itself to get a single digit and then that single digit is replaced by an alphabet corresponding to the place value of that digit. In last step the alphabets are arranged in the order as they appear in the alphabetical series.

Input: 24 53 39 42 87 76
 Step I: 87 53 39 42 76 24
 Step II: 42 87 39 76 24 53
 Step III: 39 42 87 24 53 76
 Step IV: C F F F H D
 Step V: C D F F F H

S17. Ans.(b)

Sol. Two numbers are arranged in each step from both the end such that even lowest number is arranged at the right end and the highest odd number is arranged at the left end in step I. Similarly second highest odd number is arranged to right end while the second lowest even number is arranged from left end and so on till all numbers are arranged. In next step all the digits of the numbers are added within itself to get a single digit and then that single digit is replaced by an alphabet corresponding to the place value of that digit. In last step the alphabets are arranged in the order as they appear in the alphabetical series.

Input: 24 53 39 42 87 76
 Step I: 87 53 39 42 76 24
 Step II: 42 87 39 76 24 53
 Step III: 39 42 87 24 53 76
 Step IV: C F F F H D
 Step V: C D F F F H

S18. Ans.(c)

Sol. Two numbers are arranged in each step from both the end such that even lowest number is arranged at the right end and the highest odd number is arranged at the left end in step I. Similarly second highest odd number is arranged to right end while the second lowest even number is arranged from left end and so on till all numbers are arranged. In next step all the digits of the numbers are added within itself to get a single digit and then that single digit is replaced by an alphabet corresponding to the place value of that digit. In last step the alphabets are arranged in the order as they appear in the alphabetical series.

Input: 24 53 39 42 87 76
 Step I: 87 53 39 42 76 24
 Step II: 42 87 39 76 24 53
 Step III: 39 42 87 24 53 76
 Step IV: C F F F H D
 Step V: C D F F F H

S19. Ans.(a)

Sol. Two numbers are arranged in each step from both the end such that even lowest number is arranged at the right end and the highest odd number is arranged at the left end in step I. Similarly second highest odd number is arranged to right end while the second lowest even number is arranged from left end and so on till all numbers are arranged. In next step all the digits of the numbers are added within itself to get a single digit and then that single digit is replaced by an alphabet corresponding to the place value of that digit. In last step the alphabets are arranged in the order as they appear in the alphabetical series.

Input: 24 53 39 42 87 76
 Step I: 87 53 39 42 76 24
 Step II: 42 87 39 76 24 53
 Step III: 39 42 87 24 53 76
 Step IV: C F F F H D
 Step V: C D F F F H

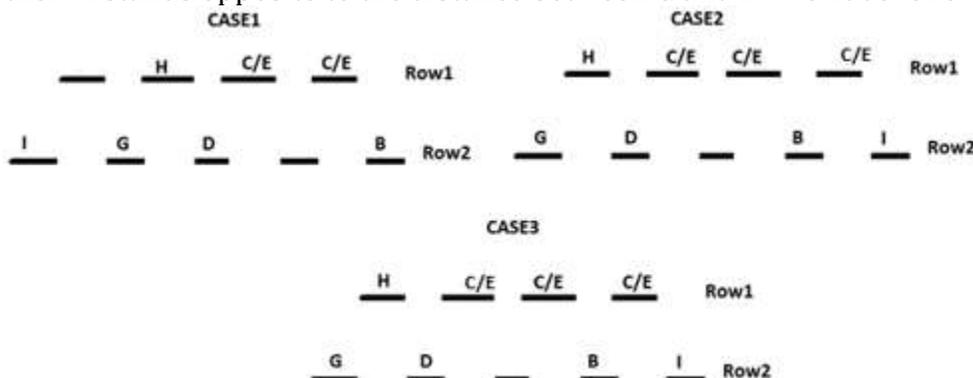
S20. Ans.(c)

Sol. Two numbers are arranged in each step from both the end such that even lowest number is arranged at the right end and the highest odd number is arranged at the left end in step I. Similarly second highest odd number is arranged to right end while the second lowest even number is arranged from left end and so on till all numbers are arranged. In next step all the digits of the numbers are added within itself to get a single digit and then that single digit is replaced by an alphabet corresponding to the place value of that digit. In last step the alphabets are arranged in the order as they appear in the alphabetical series.

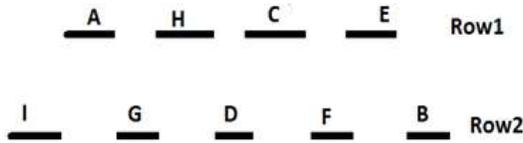
Input: 24 53 39 42 87 76
 Step I: 87 53 39 42 76 24
 Step II: 42 87 39 76 24 53
 Step III: 39 42 87 24 53 76
 Step IV: C F F F H D
 Step V: C D F F F H

S21. Ans.(e)

Sol. Two persons stand between G and B. I is in row 2 at one of the ends. C and E stand adjacent to each other. H stands opposite to the distance between G and D. We have following possibilities

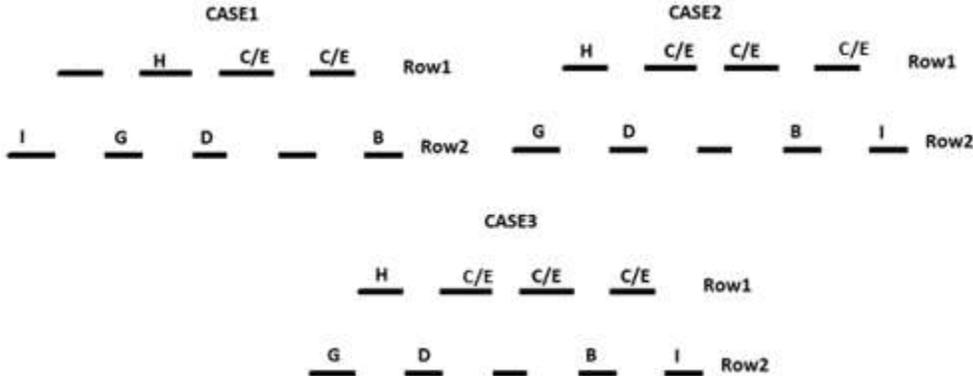


A is not in the same row as B. E's position is same as B's position from the right end. C does not stand opposite to the distance between G and I. So, case2 and case3 gets eliminated. The final arrangement is:

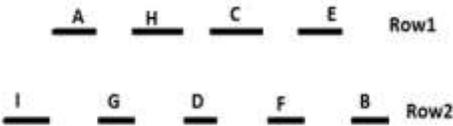


S22. Ans.(e)

Sol. Two persons stand between G and B. I is in row 2 at one of the ends. C and E stand adjacent to each other. H stands opposite to the distance between G and D. We have following possibilities

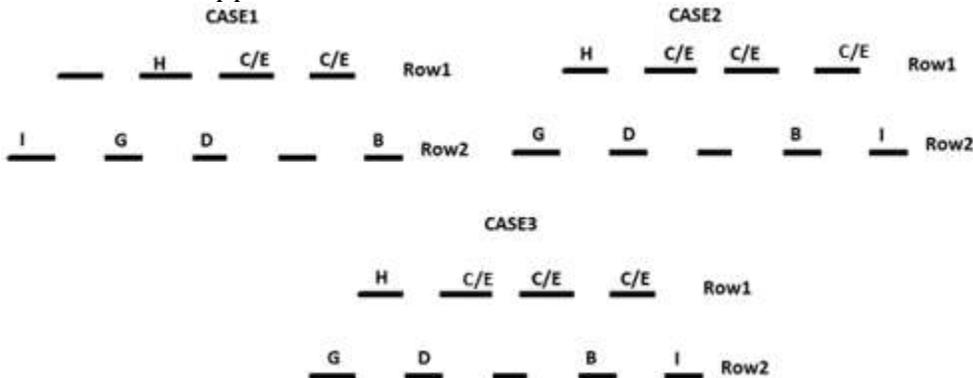


A is not in the same row as B. E's position is same as B's position from the right end. C does not stand opposite to the distance between G and I. So, case2 and case3 gets eliminated. The final arrangement is:

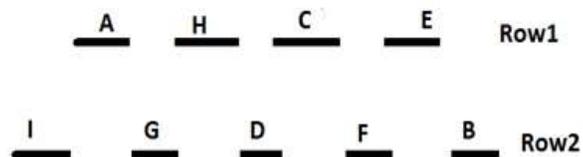


S23. Ans.(b)

Sol. Two persons stand between G and B. I is in row 2 at one of the ends. C and E stand adjacent to each other. H stands opposite to the distance between G and D. We have following possibilities

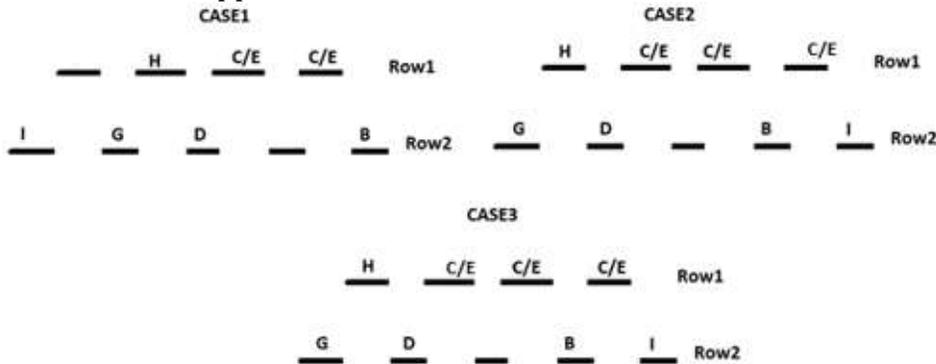


A is not in the same row as B. E's position is same as B's position from the right end. C does not stand opposite to the distance between G and I. So, case2 and case3 gets eliminated. The final arrangement is:

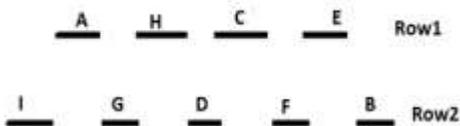


S24. Ans.(a)

Sol. Two persons stand between G and B. I is in row 2 at one of the ends. C and E stand adjacent to each other. H stands opposite to the distance between G and D. We have following possibilities

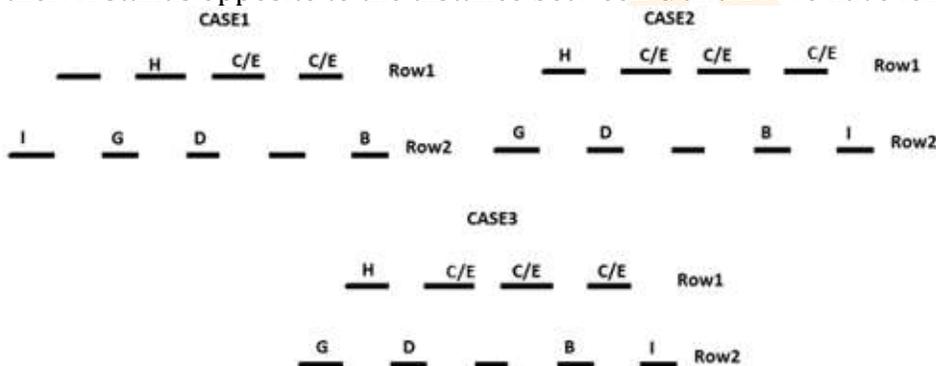


A is not in the same row as B. E's position is same as B's position from the right end. C does not stand opposite to the distance between G and I. So, case2 and case3 gets eliminated. The final arrangement is:

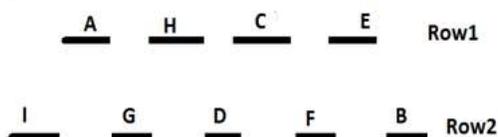


S25. Ans.(c)

Sol. Two persons stand between G and B. I is in row 2 at one of the ends. C and E stand adjacent to each other. H stands opposite to the distance between G and D. We have following possibilities

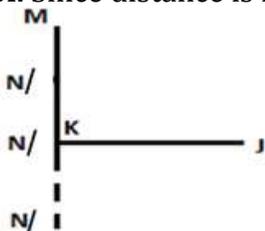


A is not in the same row as B. E's position is same as B's position from the right end. C does not stand opposite to the distance between G and I. So, case2 and case3 gets eliminated. The final arrangement is:



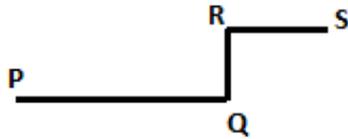
S26. Ans.(e)

Sol. Since distance is not given therefore direction of N with respect to J cannot be determined.



S27. Ans.(a)

Sol. Northeast



S28. Ans.(c)

Sol. $8 + 4 = 12$

S29. Ans.(d)

Sol. $9 - 7 = 2$

S30. Ans.(b)

Sol. $941 - 254 = 687$

After rearrangement
876

S31. Ans.(d)

Sol. Five boxes are placed between C and the one which is assigned with the number which is perfect square and one of them is placed at the bottom. Two boxes are placed between C and F which is assigned with the number 23. No box is placed above the box which is assigned with number 5. The box which is assigned with the highest number is placed immediately below the box which is assigned with the lowest number. Five boxes are placed between E and the one which is assigned with the highest number. A which is assigned with 7 is placed immediately above C. We have following conditions-

Case 1		Case 2		Case 3		Case 4	
Box	Assigned Number						
	5		5		5		5
	31		31		31		31
				A	7	A	7
	16		25	C		C	
F	23	F	23	F	23	F	23
E		E		E		E	
A	7	A	7				
C		C			16		25

Now, G which is assigned with 12 is placed below F. This will eliminate Case 1 and Case 2. Three boxes are kept between the box which is assigned with 13 and box G, which is below it. D is assigned with the number 8. B is placed immediately below J. Now the condition is-

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TOTAL VACANCIES 8550+

65+ TOTAL TESTS

- 20 Full Length Mocks
- 25 Section wise Practice Sets
- 20 Topic wise Practice Sets
- 2 Previous Years' Papers
- Insurance Knowledge eBook

BILINGUAL

Case 3		Case 4	
Box	Assigned Number	Box	Assigned Number
J	5	J	5
B	31	B	31
A	7	A	7
C		C	
	13		13
D	8	D	8
F	23	F	23
E		E	
G	12	G	12
	16		25

Now, the box which is assigned with 29 is placed above the one which is assigned with 25. C is not assigned with an odd number. This will eliminate Case 3. H is not placed below I. So the final arrangement will be-

Box	Assigned Number
J	5
B	31
A	7
C	16
H	13
D	8
F	23
E	29
G	12
I	25



S32. Ans.(a)

Sol. Five boxes are placed between C and the one which is assigned with the number which is perfect square and one of them is placed at the bottom. Two boxes are placed between C and F which is assigned with the number 23. No box is placed above the box which is assigned with number 5. The box which is assigned with the highest number is placed immediately below the box which is assigned with the lowest number. Five boxes are placed between E and the one which is assigned with the highest number. A which is assigned with 7 is placed immediately above C. We have following conditions-

Case 1		Case 2		Case 3		Case 4	
Box	Assigned Number						
	5		5		5		5
	31		31		31		31
				A	7	A	7
	16		25	C		C	
F	23	F	23	F	23	F	23
E		E		E		E	
A	7	A	7				
C		C			16		25

Now, G which is assigned with 12 is placed below F. This will eliminate Case 1 and Case 2. Three boxes are kept between the box which is assigned with 13 and box G, which is below it. D is assigned with the number 8. B is placed immediately below J. Now the condition is-

Case 3		Case 4	
Box	Assigned Number	Box	Assigned Number
J	5	J	5
B	31	B	31
A	7	A	7
C		C	
	13		13
D	8	D	8
F	23	F	23
E		E	
G	12	G	12
	16		25

Now, the box which is assigned with 29 is placed above the one which is assigned with 25. C is not assigned with an odd number. This will eliminate Case 3. H is not placed below I. So the final arrangement will be-

Box	Assigned Number
J	5
B	31
A	7
C	16
H	13
D	8
F	23
E	29
G	12
I	25



S33. Ans.(b)

Sol. Five boxes are placed between C and the one which is assigned with the number which is perfect square and one of them is placed at the bottom. Two boxes are placed between C and F which is assigned with the number 23. No box is placed above the box which is assigned with number 5. The box which is assigned with the highest number is placed immediately below the box which is assigned with the lowest number. Five boxes are placed between E and the one which is assigned with the highest number. A which is assigned with 7 is placed immediately above C. We have following conditions-

Case 1		Case 2		Case 3		Case 4	
Box	Assigned Number						
	5		5		5		5
	31		31		31		31
				A	7	A	7
	16		25	C		C	
F	23	F	23	F	23	F	23
E		E		E		E	
A	7	A	7				
C		C			16		25

Now, G which is assigned with 12 is placed below F. This will eliminate Case 1 and Case 2. Three boxes are kept between the box which is assigned with 13 and box G, which is below it. D is assigned with the number 8. B is placed immediately below J. Now the condition is-

Case 3		Case 4	
Box	Assigned Number	Box	Assigned Number
J	5	J	5
B	31	B	31
A	7	A	7
C		C	
	13		13
D	8	D	8
F	23	F	23
E		E	
G	12	G	12
	16		25

Now, the box which is assigned with 29 is placed above the one which is assigned with 25. C is not assigned with an odd number. This will eliminate Case 3. H is not placed below I. So the final arrangement will be-

Box	Assigned Number
J	5
B	31
A	7
C	16
H	13
D	8
F	23
E	29
G	12
I	25



S34. Ans.(d)

Sol. Five boxes are placed between C and the one which is assigned with the number which is perfect square and one of them is placed at the bottom. Two boxes are placed between C and F which is assigned with the number 23. No box is placed above the box which is assigned with number 5. The box which is assigned with the highest number is placed immediately below the box which is assigned with the lowest number. Five boxes are placed between E and the one which is assigned with the highest number. A which is assigned with 7 is placed immediately above C. We have following conditions-

Case 1		Case 2		Case 3		Case 4	
Box	Assigned Number						
	5		5		5		5
	31		31		31		31
				A	7	A	7
	16		25	C		C	
F	23	F	23	F	23	F	23
E		E		E		E	
A	7	A	7				
C		C			16		25

Now, G which is assigned with 12 is placed below F. This will eliminate Case 1 and Case 2. Three boxes are kept between the box which is assigned with 13 and box G, which is below it. D is assigned with the number 8. B is placed immediately below J. Now the condition is-

Case 3		Case 4	
Box	Assigned Number	Box	Assigned Number
J	5	J	5
B	31	B	31
A	7	A	7
C		C	
	13		13
D	8	D	8
F	23	F	23
E		E	
G	12	G	12
	16		25

Now, the box which is assigned with 29 is placed above the one which is assigned with 25. C is not assigned with an odd number. This will eliminate Case 3. H is not placed below I. So the final arrangement will be-

Box	Assigned Number
J	5
B	31
A	7
C	16
H	13
D	8
F	23
E	29
G	12
I	25



S35. Ans.(e)

Sol. Five boxes are placed between C and the one which is assigned with the number which is perfect square and one of them is placed at the bottom. Two boxes are placed between C and F which is assigned with the number 23. No box is placed above the box which is assigned with number 5. The box which is assigned with the highest number is placed immediately below the box which is assigned with the lowest number. Five boxes are placed between E and the one which is assigned with the highest number. A which is assigned with 7 is placed immediately above C. We have following conditions-

Case 1		Case 2		Case 3		Case 4	
Box	Assigned Number						
	5		5		5		5
	31		31		31		31
				A	7	A	7
	16		25	C		C	
F	23	F	23	F	23	F	23
E		E		E		E	
A	7	A	7				
C		C			16		25

Now, G which is assigned with 12 is placed below F. This will eliminate Case 1 and Case 2. Three boxes are kept between the box which is assigned with 13 and box G, which is below it. D is assigned with the number 8. B is placed immediately below J. Now the condition is-



EPFO
Assistant 2019

PRELIMS

25 TOTAL TESTS

- ✓ 10 Full Length Mocks
- ✓ 15 Section wise Practice Sets

BILINGUAL

Case 3		Case 4	
Box	Assigned Number	Box	Assigned Number
J	5	J	5
B	31	B	31
A	7	A	7
C		C	
	13		13
D	8	D	8
F	23	F	23
E		E	
G	12	G	12
	16		25

Now, the box which is assigned with 29 is placed above the one which is assigned with 25. C is not assigned with an odd number. This will eliminate Case 3. H is not placed below I. So the final arrangement will be-

Box	Assigned Number
J	5
B	31
A	7
C	16
H	13
D	8
F	23
E	29
G	12
I	25



S36. Ans.(d)

Sol. From I-

Let radius & height of cylinder is $7x$ and $6x$ respectively

ATQ -

$$\frac{22}{7} \times 49x^2 \times 6x = 7392$$

$$x = 2 \text{ cm}$$

$$\text{Breadth of rectangle} = 2 \times 6 = 12 \text{ cm}$$

$$\text{Given, } 2(L + 12) = 80$$

$$L = 40 - 12$$

$$L = 28 \text{ cm}$$

From II -

Side of square = a cm

$$\text{Given, } a^2 = 196$$

$$a = 14 \text{ cm}$$

$$\text{Length of rectangle} = 14 \times 2 = 28 \text{ cm}$$

So, either from statement I or statement II we can determine the answer

S37. Ans.(c)**Sol.**Total number of balls in the bag = $(7 + y + x)$ **From I -**

$$\frac{y}{(7 + y + x)} = \frac{1}{4}$$

$$-x + 3y = 7 \text{ ----- (i)}$$

From II -

$$\frac{x}{(7 + y + x)} = \frac{2}{5}$$

$$3x - 2y = 14 \text{ ----- (ii)}$$

From (I) & (II) -

$$x = 8, y = 5$$

Total blue & yellow balls in bag = $8 + 5 = 13$

So, statement I and statement II together are required to answer the question

S38. Ans.(d)**Sol.**Let speed of two trains be $4x$ m/s & $5x$ m/s respectively**From I -**

$$\frac{(120+160)}{9x} = \frac{56}{9}$$

$$x = 5$$

$$\text{Required difference} = (5 \times 5) \times \frac{18}{5} - (5 \times 4) \times \frac{18}{5} = 90 - 72 = 18 \text{ km/hr}$$

From II -

$$\frac{120}{5x + \frac{5}{2}} = \frac{240}{55}$$

$$x = 5 \text{ m/s}$$

$$\text{Required difference} = (5 \times 5) \times \frac{18}{5} - (5 \times 4) \times \frac{18}{5} = 90 - 72 = 18 \text{ km/hr}$$

So, either from statement I or statement II we can determine the answer

S39. Ans.(c)**Sol.****Form I -**

Selling price of article = 7600 Rs.

$$\text{Marked price of article} = \frac{7600}{95} \times 100$$

$$= 8000 \text{ Rs.}$$

From II -

$$\text{Cost price} = \frac{8000}{125 \times 100}$$

$$= \text{Rs } 6400$$

From I & II -

$$\text{Profit of shopkeeper} = 7600 - 6400 = 1200 \text{ Rs.}$$

So, statement I and statement II together required to answer the question

S40. Ans.(d)**Sol.**Let total number of mobile sold by store on Tuesday = $100x$ Total mobile sold by store on Wednesday = $100x \times \frac{4}{3} = \frac{400x}{3}$ Total number of mobile sold by store on Saturday = $\frac{400x}{3} \times \frac{90}{100} = 120x$ Total mobile sold by store on Monday = $100x + 4$

Given,

$$100x + \frac{400x}{3} + 120x + 100x + 4 = 205 \times 4$$

$$\frac{960x + 400x}{3} = 816$$

$$1360x = 2448$$

$$x = \frac{2448}{1360}$$

$$x = 1.8$$

Total number of mobile sold by store on Tuesday = $1.8 \times 100 = 180$ Total mobile sold by store on Monday = $1.8 \times 100 + 4 = 184$

Total mobile sold by store on Wednesday

$$= \frac{400 \times 1.8}{3} = 240$$

Total number of mobile sold by store on Saturday

$$= 1.8 \times 120 = 216$$

Let total mobile sold by store on Thursday = y So, total mobile sold by store on Friday = $y + 24$ Total mobile sold by store on Sunday = $y - 32$

Total mobile sold by store on Thursday, Friday &

Sunday = $1400 - 820 = 580$ Also, $y + y + 24 + y - 32 = 580$

$$3y = 588$$

$$y = 196$$

Total mobile sold by store on Friday = $196 + 24 = 220$ Total mobile sold on Sunday = $196 - 32 = 164$

Days	Sold mobiles
Sunday	164
Monday	184
Tuesday	180
Wednesday	240
Thursday	196
Friday	220
Saturday	216


SBI PO 2019
PRELIMS

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35 TOTAL TEST

- 20 Full Length Mocks
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VALIDITY 1 MONTHS

Total mobile sold on Monday & Saturday

$$\text{together} = 184 + 216 = 400$$

$$\text{Required percentage} = \frac{400-240}{400} \times 100$$

$$= \frac{160}{400} \times 100 = 40\%$$

S41. Ans.(a)

Sol. Let total number of mobile sold by store on Tuesday = $100x$

$$\text{Total mobile sold by store on Wednesday} = 100x \times \frac{4}{3} = \frac{400x}{3}$$

$$\text{Total number of mobile sold by store on Saturday} = \frac{400x}{3} \times \frac{90}{100} = 120x$$

$$\text{Total mobile sold by store on Monday} = 100x + 4$$

Given,

$$100x + \frac{400x}{3} + 120x + 100x + 4 = 205 \times 4$$

$$\frac{960x+400x}{3} = 816$$

$$1360x = 2448$$

$$x = \frac{2448}{1360}$$

$$x = 1.8$$

$$\text{Total number of mobile sold by store on Tuesday} = 1.8 \times 100 = 180$$

$$\text{Total mobile sold by store on Monday} = 1.8 \times 100 + 4 = 184$$

Total mobile sold by store on Wednesday

$$= \frac{400 \times 1.8}{3} = 240$$

Total number of mobile sold by store on Saturday

$$= 1.8 \times 120 = 216$$

Let total mobile sold by store on Thursday = y

$$\text{So, total mobile sold by store on Friday} = y + 24$$

$$\text{Total mobile sold by store on Sunday} = y - 32$$

Total mobile sold by store on Thursday, Friday &

$$\text{Sunday} = 1400 - 820 = 580$$

$$\text{Also, } y + y + 24 + y - 32 = 580$$

$$3y = 588 \Rightarrow y = 196$$

$$\text{Total mobile sold by store on Friday} = 196 + 24 = 220$$

$$\text{Total mobile sold on Sunday} = 196 - 32 = 164$$

Days	Sold mobiles
Sunday	164
Monday	184
Tuesday	180
Wednesday	240
Thursday	196
Friday	220
Saturday	216

Total mobile sold by store on Monday &

Thursday together = $184 + 196 = 380$

$$\begin{aligned}\text{Required ratio} &= \frac{380}{220} \\ &= 19 : 11\end{aligned}$$

S42. Ans.(c)

Sol. Let total number of mobile sold by store on Tuesday = $100x$

Total mobile sold by store on Wednesday = $100x \times \frac{4}{3} = \frac{400x}{3}$

Total number of mobile sold by store on Saturday = $\frac{400x}{3} \times \frac{90}{100} = 120x$

Total mobile sold by store on Monday = $100x + 4$

Given,

$$100x + \frac{400x}{3} + 120x + 100x + 4 = 205 \times 4$$

$$\frac{960x + 400x}{3} = 816$$

$$1360x = 2448$$

$$x = \frac{2448}{1360}$$

$$x = 1.8$$

Total number of mobile sold by store on Tuesday = $1.8 \times 100 = 180$

Total mobile sold by store on Monday = $1.8 \times 100 + 4 = 184$

Total mobile sold by store on Wednesday

$$= \frac{400 \times 1.8}{3} = 240$$

Total number of mobile sold by store on Saturday

$$= 1.8 \times 120 = 216$$

Let total mobile sold by store on Thursday = y

So, total mobile sold by store on Friday = $y + 24$

Total mobile sold by store on Sunday = $y - 32$

Total mobile sold by store on Thursday, Friday &

Sunday = $1400 - 820 = 580$

$$\text{Also, } y + y + 24 + y - 32 = 580$$

$$3y = 588 \Rightarrow y = 196$$

Total mobile sold by store on Friday = $196 + 24 = 220$

Total mobile sold on Sunday = $196 - 32 = 164$

Days	Sold mobiles
Sunday	164
Monday	184
Tuesday	180
Wednesday	240
Thursday	196
Friday	220
Saturday	216

Total mobiles sold by store on Tuesday,

Wednesday & Saturday = $180 + 240 + 216 = 636$

Required average = $\frac{636}{3} = 212$

S43. Ans.(e)

Sol. Let total number of mobile sold by store on Tuesday = $100x$

Total mobile sold by store on Wednesday = $100x \times \frac{4}{3} = \frac{400x}{3}$

Total number of mobile sold by store on Saturday = $\frac{400x}{3} \times \frac{90}{100} = 120x$

Total mobile sold by store on Monday = $100x + 4$

Given,

$$100x + \frac{400x}{3} + 120x + 100x + 4 = 205 \times 4$$

$$\frac{960x + 400x}{3} = 816$$

$$1360x = 2448$$

$$x = \frac{2448}{1360}$$

$$x = 1.8$$

Total number of mobile sold by store on Tuesday = $1.8 \times 100 = 180$

Total mobile sold by store on Monday = $1.8 \times 100 + 4 = 184$

Total mobile sold by store on Wednesday

$$= \frac{400 \times 1.8}{3} = 240$$

Total number of mobile sold by store on Saturday

$$= 1.8 \times 120 = 216$$

Let total mobile sold by store on Thursday = y

So, total mobile sold by store on Friday = $y + 24$

Total mobile sold by store on Sunday = $y - 32$

Total mobile sold by store on Thursday, Friday &

Sunday = $1400 - 820 = 580$

Also, $y + y + 24 + y - 32 = 580$

$$3y = 588 \Rightarrow y = 196$$

Total mobile sold by store on Friday = $196 + 24 = 220$

Total mobile sold on Sunday = $196 - 32 = 164$

Days	Sold mobiles
Sunday	164
Monday	184
Tuesday	180
Wednesday	240
Thursday	196
Friday	220
Saturday	216

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Total mobile sold by store on Sunday & Saturday together = $164 + 216 = 380$
 Total mobile sold by store on Monday & Thursday together = $184 + 196 = 380$
 Difference = 0
 Required percentage = 0%

S44. Ans.(b)

Sol. Let the present age of P be x yrs.
 and the present age of Q be y yrs.

ATQ,

$$x + y = 82 + 12 = 94 \text{ yrs. ... (i)}$$

and,

$$y - 14 = x$$

$$\Rightarrow x - y = -14 \text{ ... (ii)}$$

On solving (i) and (ii), we get

$$x = 40 \text{ yrs.}$$

$$P\text{'s age 4 years later} = 40 + 4 = 44 \text{ yrs.}$$

S45. Ans.(d)

Sol. Circumference of semi-circle = $\pi r + 2r$

$$\Rightarrow \frac{22}{7} \times r + 2r = 54$$

$$\Rightarrow r = 10.5 \text{ cm}$$

$$\text{Length of rectangle } (\ell) = 2 \times r = 21 \text{ cm}$$

$$\text{Breadth of rectangle } (b) = 10.5 + 10.5 \times \frac{3}{7} = 15 \text{ cm}$$

$$\text{Area of rectangle} = 21 \times 15 = 315 \text{ cm}^2.$$

S46. Ans.(c)

Sol. Let the speed of stream be x km/hr
 Then, speed of boat in still water = $8x$ km/hr

ATQ,

$$\frac{63}{8x+x} = 2 \text{ hr } 48 \text{ min.}$$

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

$$\text{Speed of boat in still water} = 20 \text{ km/hr}$$

$$\text{Required time} = \frac{56}{20-2.5} = \frac{56}{17.5} = 3 \text{ hr } 12 \text{ min.}$$

S47. Ans.(a)

Sol. Let the MRP of trouser be Rs. x

ATQ,

$$x \times \frac{72.5}{100} - x \times \frac{82}{100} \times \frac{85}{100} = 35$$

$$\Rightarrow \frac{29x}{40} - \frac{697x}{1000} = 35$$

$$\Rightarrow \frac{725x - 697x}{1000} = 35$$

$$\Rightarrow \frac{28x}{1000} = 35$$

$$\Rightarrow x = \frac{(35 \times 1000)}{28} = \text{Rs. } 1250$$

S48. Ans.(e)**Sol.**

P_1 can fill the whole tank in $\frac{9 \times 5}{3} = 15$ min.

Let the efficiency of P_1 be $3x$ unit/min.

\therefore total capacity of tank = $15 \times 3x = 45x$ unit

Efficiency of $P_2 = 3x \times 1.5 = 4.5x$ unit/min

Efficiency of $P_3 = 4.5x \times \frac{5}{9} = 2.5x$ unit/min

Required time = $\frac{45x}{(3x+4.5x+2.5x)} = 4.5$ min.

S49. Ans.(b)**Sol.** Total employee working in operation from

$$\text{Bangalore} = 2400 \times \frac{100 - (26+6)}{100} \times \frac{4}{8}$$

$$= 816$$

$$\text{Required sum} = 816 + 1600 \times \frac{42}{100} + 1200 \times \frac{36}{100}$$

$$= 816 + 672 + 432$$

$$= 1920$$

S50. Ans.(d)**Sol.** Total number of employee working in HR department from Pune

$$= 2000 \times \frac{100 - (40+16+14)}{100} \times \frac{1}{5}$$

$$= 120$$

Total number of employee working in HR

$$\text{department from Delhi} = 1200 \times \frac{8}{100} = 96$$

$$\text{Required average} = \frac{120+96}{2}$$

$$= 108$$

S51. Ans.(c)**Sol.** Total employee working in support department

$$\text{from Bangalore} = 2400 \times \frac{100 - (26+6)}{100} \times \frac{1}{8}$$

$$= 204$$

Required sum

$$= 204 + 12 \times 20 + 16 \times 10 + 18 \times 16 + 20 \times 14$$

$$= 204 + 240 + 160 + 288 + 280$$

$$= 1172$$



S52. Ans.(e)**Sol.** Total employee working in IT department from

$$\text{Bangalore} = 2400 \times \frac{26}{100} = 624$$

Total employee working in IT department

$$\text{from Pune} = 624 \times \frac{55}{78} = 440$$

$$\begin{aligned} \text{Required sum} &= 440 + 18 \times 22 + 12 \times 24 \\ &= 1124 \end{aligned}$$

S53. Ans.(a)**Sol.** Total employee working in HR department

$$\text{from Mumbai} = 1800 \times \frac{100 - (38 + 22 + 14 + 16)}{100} = 180$$

Total employee working in HR department

$$\text{from Gurgaon} = 1600 \times \frac{100 - (42 + 28 + 16 + 10)}{100} = 64$$

$$\begin{aligned} \text{Required percentage} &= \frac{180 - 64}{64} \times 100 \\ &= 181.25\% \end{aligned}$$

S54. Ans.(a)**Sol.**

$$\begin{aligned} \text{(i)} \quad 2x^2 - 31x + 84 &= 0 \\ 2x^2 - 24x - 7x + 84 &= 0 \\ 2x(x - 12) - 7(x - 12) &= 0 \\ (x - 12)(2x - 7) &= 0 \\ x &= 12, \frac{7}{2} \end{aligned}$$

$$\begin{aligned} \text{(ii)} \quad 3y^2 + y - 2 &= 0 \\ 3y^2 + 3y - 2y - 2 &= 0 \\ 3y(y + 1) - 2(y + 1) &= 0 \\ (y + 1)(3y - 2) &= 0 \\ y &= -1, \frac{2}{3} \end{aligned}$$

$$x > y$$

S55. Ans.(b)**Sol.**

$$\begin{aligned} \text{(i)} \quad x^2 - 30x + 216 &= 0 \\ x(x - 12) - 18(x - 12) &= 0 \\ (x - 18)(x - 12) &= 0 \\ x &= 18, 12 \end{aligned}$$



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$$(ii) y^2 - 21y + 108 = 0$$

$$y^2 - 12y - 9y + 108 = 0$$

$$y(y - 12) - 9(y - 12) = 0$$

$$(y - 9)(y - 12) = 0$$

$$y = 9, 12$$

$$x \geq y$$

S56. Ans.(b)

Sol.

$$\begin{array}{cccccc}
 72 & 74 & 84 & 110 & 160 & \boxed{242} & 364 \\
 \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} \\
 +2 & +10 & +26 & +50 & +82 & +122 & \\
 \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \\
 1^2+1 & 3^2+1 & 5^2+1 & 7^2+1 & 9^2+1 & 11^2+1 &
 \end{array}$$

Wrong no \rightarrow 244

S57. Ans.(e)

Sol.

$$\begin{array}{cccccc}
 30 & 42 & 48 & 54 & \boxed{63} & 81 & 126 \\
 \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} \\
 12 & 6 & 6 & 9 & 18 & 45 & \\
 \times 0.5 & \times 1 & \times 1.5 & \times 2 & \times 2.5 & &
 \end{array}$$

Wrong no \rightarrow 65

S58. Ans.(a)

Sol.

$$\begin{array}{cccccc}
 77 & 78 & \boxed{157} & 472 & 1889 & 9446 & 56677 \\
 \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} \\
 \times 1+1 & \times 2+1 & \times 3+1 & \times 4+1 & \times 5+1 & \times 6+1 &
 \end{array}$$

Wrong no. \rightarrow 159

S59. Ans.(d)

Sol.

$$\begin{array}{cccccc}
 2159 & 1967 & 1782 & 1611 & 1461 & 1339 & \boxed{1252} \\
 \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} \\
 192 & 185 & 171 & 150 & 122 & 87 & \\
 -7 & -14 & -21 & -28 & -35 & &
 \end{array}$$

Wrong no. \rightarrow 1254

S60. Ans.(c)

Sol.

$$\begin{array}{cccccc}
 \boxed{855} & 886 & 923 & 964 & 1007 & 1054 & 1107 \\
 \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} \\
 +31 & +37 & +41 & +43 & +47 & +53 & \text{Prime}
 \end{array}$$

Wrong no. \rightarrow 854

S61. Ans.(b)**Sol.**

Let amount invested by A be Rs. x

Amount invested by B be Rs. x

Ratio of profit share

A	B
$x \times 8 + \frac{3}{2}x \times 4$	$x \times 12$
14x	12x
7	6

ATQ,

$1 \rightarrow 1560.$

$\Rightarrow 7 \rightarrow 7 \times 1560$

Required amount = $7 \times 1560 = \text{Rs. } 10,920$

S62. Ans.(d)**Sol.**

Total age of 24 students = $24 \times 16.5 = 396$ years

total age of 28 students = $28 \times 17 = 476$ years

total age of 32 students = $32 \times 16 = 512$ years

\therefore total age of 8 new students = $512 - 396 = 116$ years.

Required average = $\frac{116}{8}$ years = $14\frac{1}{2}$ years

S63. Ans.(e)**Sol.**

$$\frac{6 \times (4+x) \times 2}{(10+x)(9+x)} = \frac{18}{35}$$

$\Rightarrow 3x^2 - 13x - 10 = 0$

$\Rightarrow 3x^2 - 15x + 2x - 10 = 0$

$\Rightarrow 3x(x-5) + 2(x-5) = 0$

$x = 5$

S64. Ans.(c)**Sol.**

Speed of $T_1 = 108$ km/hr

$= 108 \times \frac{5}{18} = 30$ m/s

Let length of train T_1 be x m.

than that of tunnel be 2x m.

ATQ,

$\frac{3x}{30} = 18 \Rightarrow x = 180$ m.

Length of $T_2 = 180$ m.

Speed of $T_2 = 30 \times \frac{1}{2} = 15$ m/s.

\therefore required time = $\frac{(180+180)}{45} = 8$ seconds



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S65. Ans.(a)

Sol.

$$\underline{9} \times \underline{10} \times \underline{10} \times \underline{10} \times \underline{5} = 45000$$

↑
(0/2/4/6/8)

S66. Ans.(d)

Sol.

Total numbers of female come to watch

$$\text{movie on Friday} = 420 \times \frac{50}{50} = 420$$

Total numbers of female come to watch

$$\text{movie on Tuesday} = 216 \times \frac{55}{45} = 264$$

$$\text{Required difference} = 420 - 264 = 156$$

S67. Ans.(a)

Sol.

Total people come to watch movie on

$$\text{Saturday} = \frac{468}{65} \times 100 \times \frac{125}{100} = 900$$

Total male come to watch movie on

$$\text{Saturday} = 216 \times \frac{11}{8} = 297$$

So, total female come to watch movie on

$$\text{Saturday} = 900 - 297 = 603$$

S68. Ans.(b)

Sol.

Total numbers of female come to watch

$$\text{movie on Monday} = \frac{176}{55} \times 45 = 144$$

Total numbers of female come to watch

$$\text{movie on Thursday} = \frac{468}{65} \times 35 = 252$$

$$\begin{aligned} \text{Required ratio} &= \frac{144}{252} \\ &= 4 : 7 \end{aligned}$$



S69. Ans.(d)**Sol.**

Total female come to watch movie

$$\text{on Friday} = 420 \times \frac{50}{50} = 420$$

So, total people come to watch movie

$$\text{on Sunday} = 420 \times \frac{5}{3} = 700$$

Total male come to watch movie on

$$\text{Sunday} = 700 \times \frac{70}{100} = 490$$

$$\begin{aligned} \text{Required percentage} &= \frac{490}{(216+384)} \times 100 \\ &= 81 \frac{2}{3}\% \end{aligned}$$

S70. Ans.(c)**Sol.**

Total number of female come to watch

$$\text{movie on Tuesday} = 216 \times \frac{55}{45} = 264$$

Total number of female come to watch

$$\text{movie on Wednesday} = \frac{384}{60} \times 40 = 256$$

Total number of female come to watch

$$\text{movie on Friday} = 420 \times \frac{50}{50} = 420$$

$$\begin{aligned} \text{Required sum} &= 264 + 256 + 420 \\ &= 940 \end{aligned}$$

S71. Ans.(c)

Sol. Option (c) is the appropriate choice. Refer to paragraph 2 where it is mentioned that the two shocks to the economy (demonetization and then the GST) had a big negative impact on the rate of growth. This is not even captured in the new data since a shock requires a change in methodology for calculation of GDP.

S72. Ans.(b)

Sol. The only option which is correct is option (b). The answer can be deduced from paragraph 3 where it is mentioned that older items become redundant and newer ones need to be included. So, as time passes, the earlier series of data does not represent the true growth rate of the economy and needs to be modified. That is why the old series is replaced by a new one periodically.


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S73. Ans.(e)

Sol. Refer to paragraph 4 where the text is quoted as the difficulty with the new series (2011-12) was because it not only changed the bundle of items used to calculate growth but also used a more extensive data base (of companies) called MCA21. This data base was available from 2006-07. However, it kept changing every year.

S74. Ans.(e)

Sol. Option (e) is the correct choice. Refer to paragraph 5 where it is explicitly mentioned that the implicit admission is that the economy did grow faster under the UPA but due to wrong policies (allowing the fiscal deficit to rise, undue expansion of bank loans, etc).The argument is that these have led to non-performing assets (the twin balance sheet problem), higher inflation and current account deficit.

S75. Ans.(c)

Sol. Option(c) is the most suitable choice. It is the only false statement. The correction of it is : The 2007-08 crisis was a global one but the Indian economy continued to grow when many other economies were slowing down due to increase in fiscal deficit from its record low in 2007.

S76. Ans.(e)

Sol. Option (e) is the appropriate answer. Refer to the last paragraph where it is given that household savings have declined sharply and the investment climate remains poor with large numbers of dollar millionaires leaving the country.

S77. Ans.(a)

Sol. The correct answer is option (a).
Mess means 'to make untidy or dirty';

S78. Ans.(c)

Sol. The correct answer is option (c).
Controversy [noun]: prolonged public disagreement or heated discussion.
Squabble [noun]: a noisy quarrel about something trivial.

S79. Ans.(e)

Sol. The correct answer is option (e);
Stabilize: to make a thing to preserve its characteristics.
Altered, adjusted, fitted and mutated are the synonyms of '**modified**'.

S80. Ans.(b)

Sol. The correct answer is option (b).
Alter means to modify and brings a change in a thing.
Stabilize means to enable a thing to preserve its characteristics.

S81. Ans.(c)

Sol. The error is in the phrase 'to cut short his visit'. The use of the pronoun 'his' is incorrect because the antecedent of the pronoun is a female. Hence, the correct answer is option (c).

S82. Ans.(a)

Sol. There is an error in the part (B) 'to end besides a fresh lifetime low'. The use of the preposition 'besides' is incorrect to the context of the sentence. The correct preposition to use is 'at'. Hence, the correct answer is option (a).

S83. Ans.(b)

Sol. There is an error in the part (A) 'Rafael Nadal were pushed'. The nominative of the sentence 'Rafael Nadal' is singular. So, 'was' should have been used instead of 'were'. Hence, the correct answer is option (b).

S84. Ans.(e)

Sol. There is an error in the part (A) 'Weather was a hot topic'. The noun phrase 'weather' seems to be missing a determiner before it. The article 'the' should be used. Hence, the correct answer is 'none of these'.

S85. Ans.(d)

Sol. The given sentence is grammatically correct. Hence, option (e) is the correct answer.

S86. Ans.(d)

Sol. Expressions (I) and (III) of the sentence contain error. It is to be noted that the difference between "in" and "into" is whether or not there is a movement. "Into" is used when something or someone is going or being put into another location. "In" is used to describe where someone or something already is. Therefore, "in" should be replaced by "into". Moreover, while using "if- conditional clause" we use the past perfect (i.e., had + past participle) in the if-clause. The modal auxiliary (would, could, should, etc.) + have + past participle in the main clause expresses the theoretical situation that could have happened. Therefore, "wouldn't be" should be replaced by "hadn't been". Thus, option (d) is the most suitable answer choice.

S87. Ans.(a)

Sol. Phrase (I) of the sentence contains a grammatical error. It is to be noted that while using a relative adverb such as where, when, why, whatever and wherever etc. that/as is not used before the given adverb. All the other phrases are correct, hence, option (a) is the most suitable answer choice.

S88. Ans.(b)

Sol. Phrase (III) of the sentence contains an error. It is to be noted that the sentence is making a comparison between the peace generated through information [noun- facts provided or learned about something or someone] and ignorant [adjective- lacking knowledge or awareness in general; uneducated or unsophisticated]; thus, this comparison is vague as the subjects are of different parts of speech. Therefore, to make phrase (III) grammatically correct, replace "ignorant" by "ignorance". Hence, option (b) is the most suitable answer choice.

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S89. Ans.(a)

Sol. The first phrase of the sentence contains an error. It is to be noted that the sentence requires a subject to frame it into an appropriate grammatical syntax. Here, “to remove” is an infinitive which cannot act as a subject to the sentence, therefore, it should be replaced by “Removing” which will be a gerund and thus can be the subject of the sentence. All the other phrases are correct, hence, option (a) is the most suitable answer choice.

S90. Ans.(e)

Sol. In the given sentence, along with the highlighted phrases the non-highlighted phrases are grammatically correct and contextually meaningful. Since, they do not require any corrections, option (e) is the most suitable answer choice.

S91. Ans.(c)

Sol. In the given sentence, parts (I) and (II) contain grammatical as well as contextual errors. To correct part (I) of the sentence, replace, “to strengthen” by “strengthening”. Moreover, in part (II), replace “in spite of” by “instead of” as in spite of means without being affected by the particular factor mentioned; while “instead of” means as a substitute or replacement; in the place or instead of someone or something. Hence, option (c) is the most suitable answer choice.

S92. Ans.(b)

Sol. In the given sentence, part (V) contains an error. To make the phrase grammatically correct, replace “as” by “like”. Both the words are used to show similarities however “As” is followed by a noun or pronoun which is immediately followed by a verb. It usually introduces an adverb clause of manner or comparison whereas 'like' is used to state that someone is very similar to another. Like is a preposition and should be followed by a noun or pronoun. Hence, option (b) is the most suitable answer choice.

S93. Ans.(d)

Sol. In the given sentence, parts (II) and (III) contain error in it. In phrase (II), “twin” is an adjective which is describing two similar things that are a pair. Since it is describing about two implications, the plural form of the noun “implication” must be used, i.e. “implications”. Moreover, in phrase (III), “among” should be replaced by “between”. It is often taught that “between” is used for 2 items and “among” for 3 or more. But this is not completely accurate. The more accurate difference is Between is used when naming distinct, individual items (can be 2, 3, or more) while Among is used when the items are part of a group, or are not specifically named (MUST be 3 or more). Hence, option (d) is the most appropriate answer choice.

S94. Ans.(a)

Sol. In the given sentence, part (I) contains a grammatical error. It is to be noted that when using not only . . . but also in a sentence, parallelism should be the goal. It means that the words following both parts of this correlative conjunction (i.e., not only and but also) should belong to the same parts of speech. Hence the correct part (I) should be “Digital India is not only about”. All the other given phrases are correct, hence, option (a) is the most suitable answer choice.

S95. Ans.(e)

Sol. All the parts of the given sentence are grammatically correct and contextually meaningful. Since they do not require any corrections, option (e) is the most suitable answer choice.

S96. Ans.(d)

Sol. Wanting- lacking, sentence (C) and (E) makes a perfect match
Mercurial-unpredictable changes in mood, (A) and (F) makes a perfect match.

S97. Ans.(d)

Sol. Platitude- a trite or obvious remark, (A) and (E) makes the perfect match as in sentence (A) professor is talking about some statements and in sentence (E) those statements are considered as mere remarks only. Sentence (C) and (F) makes proper combination as the word 'gap' is used in sentence (C) and in sentence (F) this 'gap' between two things have been explained.

S98. Ans.(c)

Sol. Only sentence (A) and (D) makes a perfect match as in sentence (D) the natural calamity is stated that recently happened in Kerela and in sentence (A) the environment ministry, led by Madhav gadkil is stated.

S99. Ans.(b)

Sol. Only sentence (B) and (F) makes a perfect match as they both together states that there is a new current proposal which has a slightly expanded form of amendments passed by assembly.

S100. Ans.(c)

Sol. Only sentence (A) and (F) makes a perfect match as both are talking of a person, Leaderfield. None of the two sentences make the meaningful coherent sense.



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