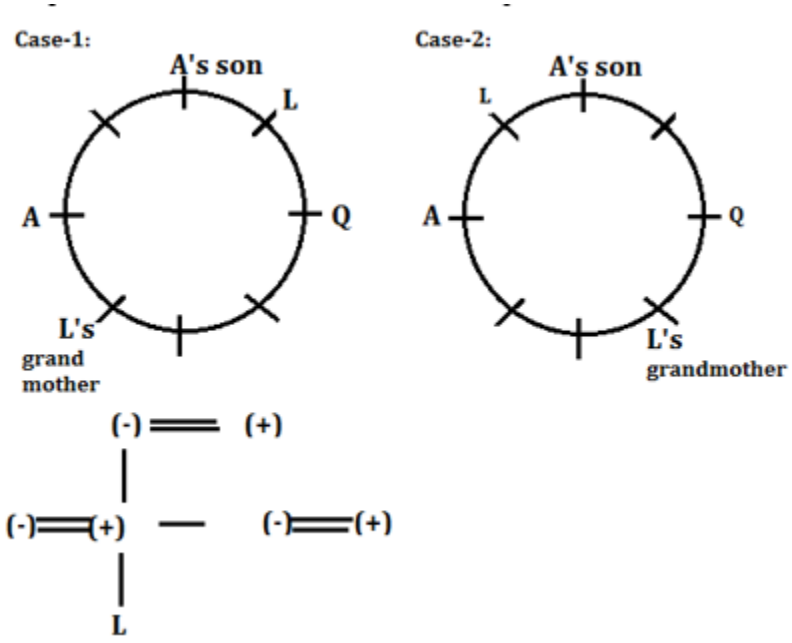
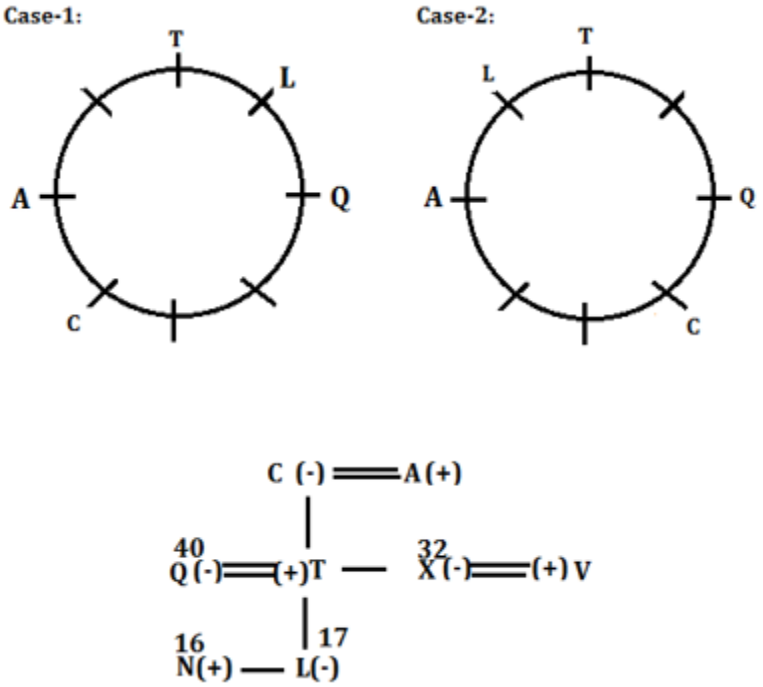
S1. Ans.(c);

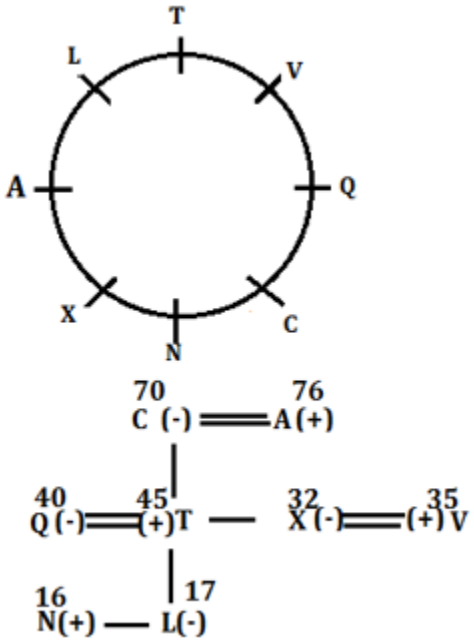
Sol. A's son sits second to the left of A. The grandmother of L sits opposite to L. The difference between the ages of grandfather and grandmother is 6 years. The age of the one who sits immediate left of Q is twice the age of the one who sits immediate right of Q. Only one person sits between A's son and Q.



L is one year older to her brother. The age of the grandson is 16 years. Q's age is 5/2 times of age of her son. The difference between the ages of T and his brother-in-law is 10. X is married to V. X's age is twice of the age of T's son. None of the given person is 42 years old. C is not a male.

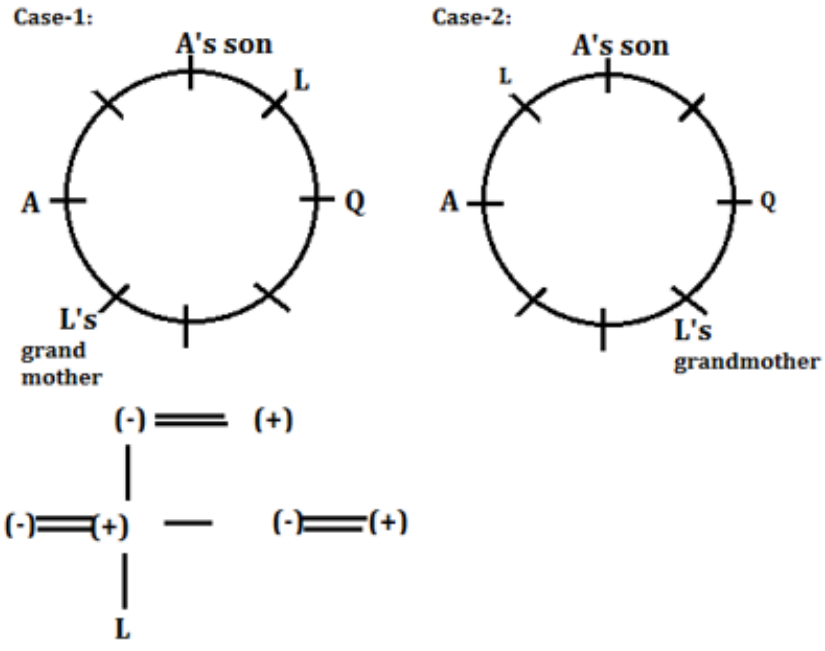


The son-in-law neither sits next to A nor C. The difference between the ages of A's daughter and A's daughter's husband is 3 years. The age of the one who sits immediate left of Q is twice the age of the one who sits immediate right of Q. So, from this case-1 gets eliminated as X's age is 35 years. The difference between the ages of T and his brother-in-law is 10. Now, with case-2, Clearly C's age is 70 years and T's age is 45 years. The difference between the ages of grandfather and grandmother is 6 years. Rest A's age is 76 years. N does not sit opposite to V. So, the final arrangement is----



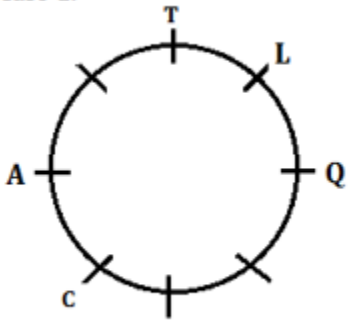
S2. Ans.(d);

Sol. A's son sits second to the left of A. The grandmother of L sits opposite to L. The difference between the ages of grandfather and grandmother is 6 years. The age of the one who sits immediate left of Q is twice the age of the one who sits immediate right of Q. Only one person sits between A's son and Q.

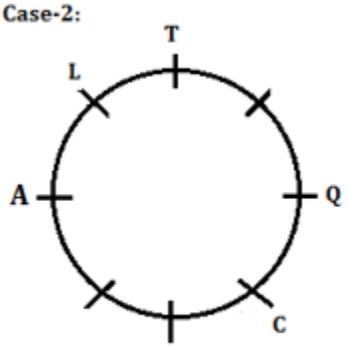


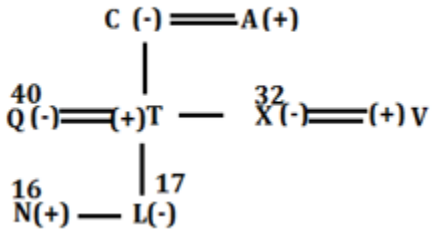
L is one year older to her brother. The age of the grandson is 16 years. Q's age is 5/2 times of age of her son. The difference between the ages of T and his brother-in-law is 10. X is married to V. X's age is twice of the age of T's son. None of the given person is 42 years old. C is not a male.

Case-1:

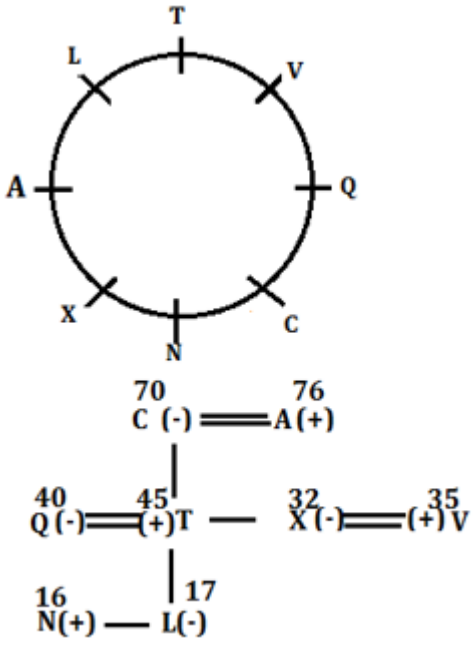


Case-2:



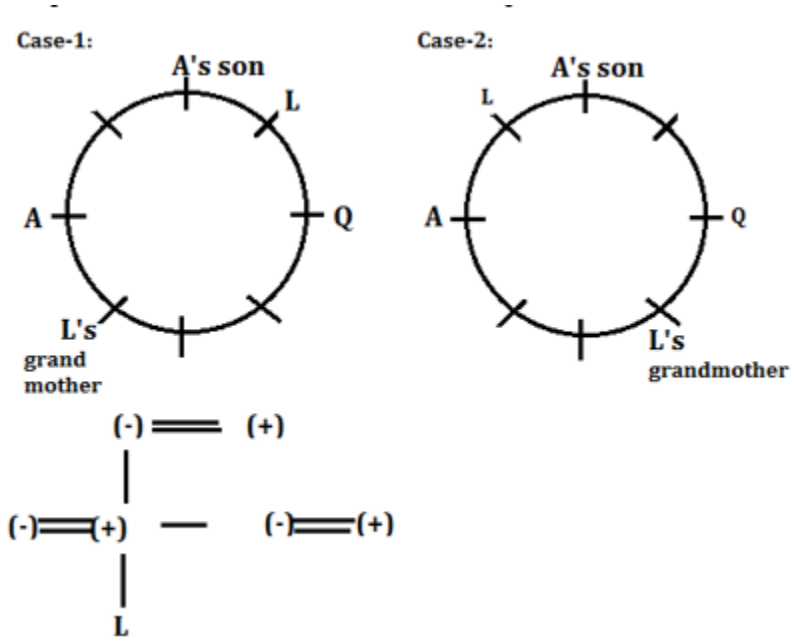


The son-in-law neither sits next to A nor C. The difference between the ages of A's daughter and A's daughter's husband is 3 years. The age of the one who sits immediate left of Q is twice the age of the one who sits immediate right of Q. So, from this case-1 gets eliminated as X's age is 35 years. The difference between the ages of T and his brother-in-law is 10. Now, with case-2, Clearly C's age is 70 years and T's age is 45 years. The difference between the ages of grandfather and grandmother is 6 years. Rest A's age is 76 years. N does not sit opposite to V. So, the final arrangement is----

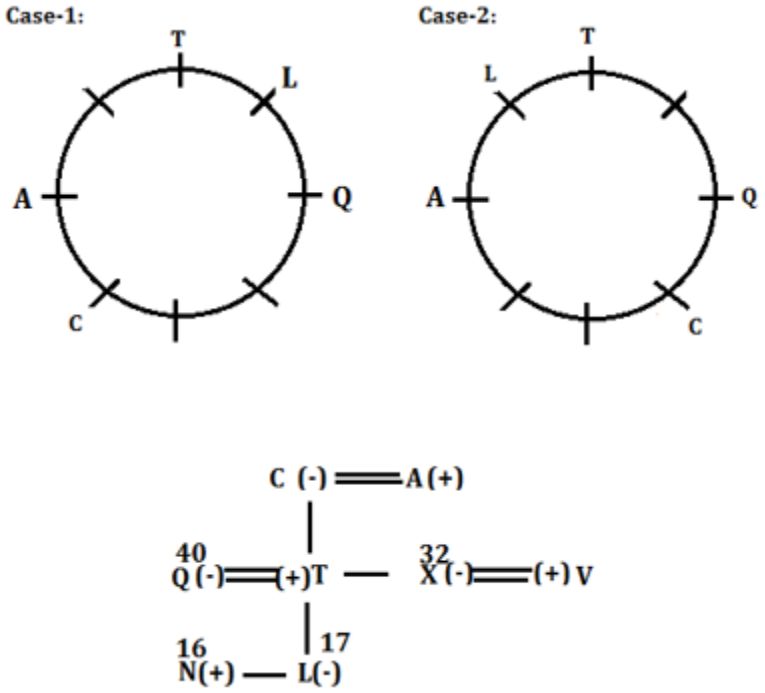


S3. Ans.(b);

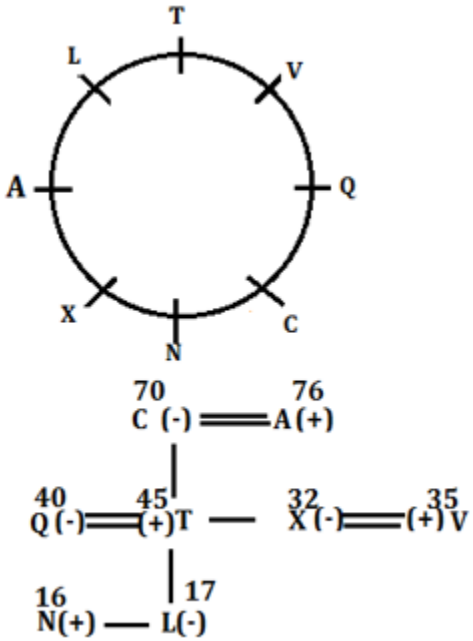
Sol. A's son sits second to the left of A. The grandmother of L sits opposite to L. The difference between the ages of grandfather and grandmother is 6 years. The age of the one who sits immediate left of Q is twice the age of the one who sits immediate right of Q. Only one person sits between A's son and Q.



L is one year older to her brother. The age of the grandson is 16 years. Q's age is 5/2 times of age of her son. The difference between the ages of T and his brother-in-law is 10. X is married to V. X's age is twice of the age of T's son. None of the given person is 42 years old. C is not a male.

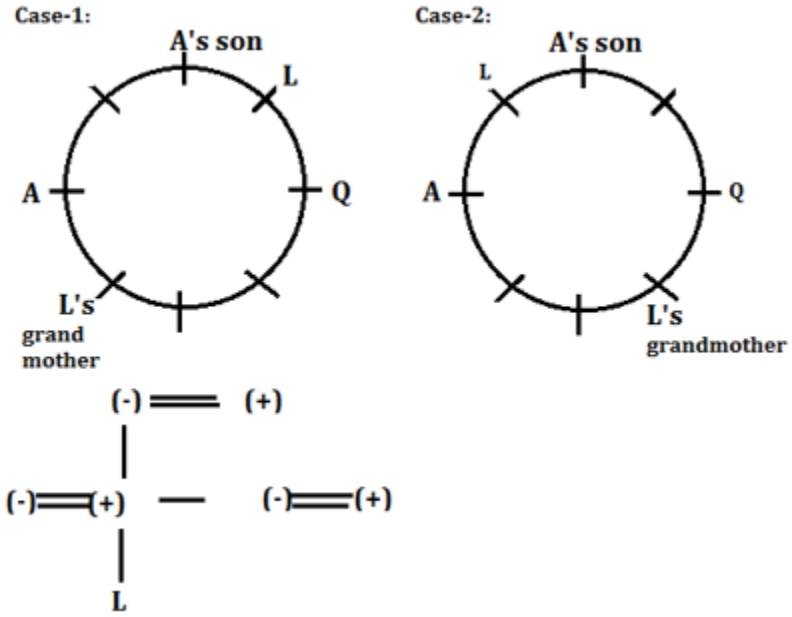


The son-in-law neither sits next to A nor C. The difference between the ages of A's daughter and A's daughter's husband is 3 years. The age of the one who sits immediate left of Q is twice the age of the one who sits immediate right of Q. So, from this case-1 gets eliminated as X's age is 35 years. The difference between the ages of T and his brother-in-law is 10. Now, with case-2, Clearly C's age is 70 years and T's age is 45 years. The difference between the ages of grandfather and grandmother is 6 years. Rest A's age is 76 years. N does not sit opposite to V. So, the final arrangement is----



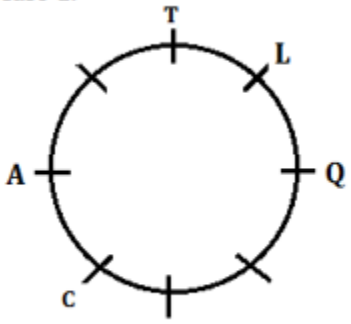
S4. Ans.(a);

Sol. A's son sits second to the left of A. The grandmother of L sits opposite to L. The difference between the ages of grandfather and grandmother is 6 years. The age of the one who sits immediate left of Q is twice the age of the one who sits immediate right of Q. Only one person sits between A's son and Q.

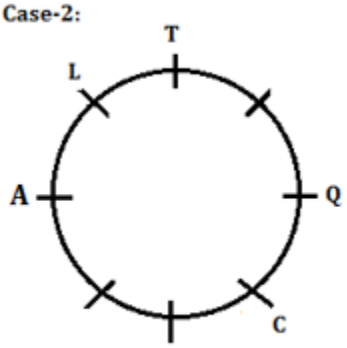


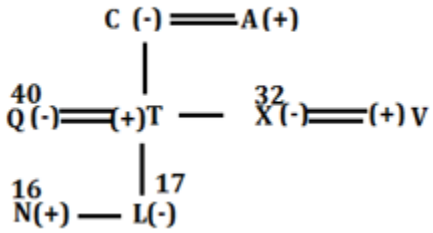
L is one year older to her brother. The age of the grandson is 16 years. Q's age is 5/2 times of age of her son. The difference between the ages of T and his brother-in-law is 10. X is married to V. X's age is twice of the age of T's son. None of the given person is 42 years old. C is not a male.

Case-1:

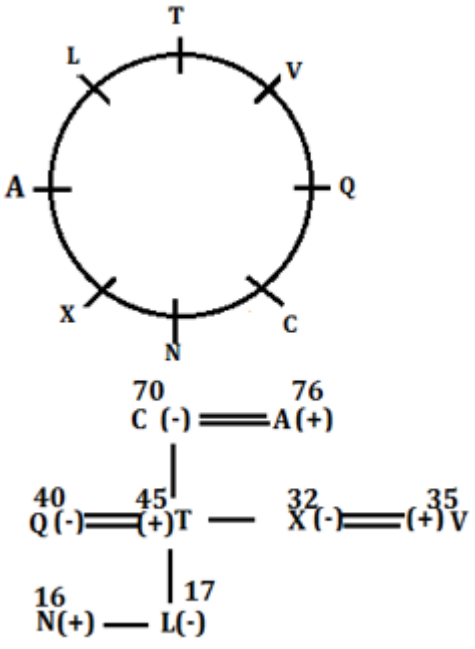


Case-2:



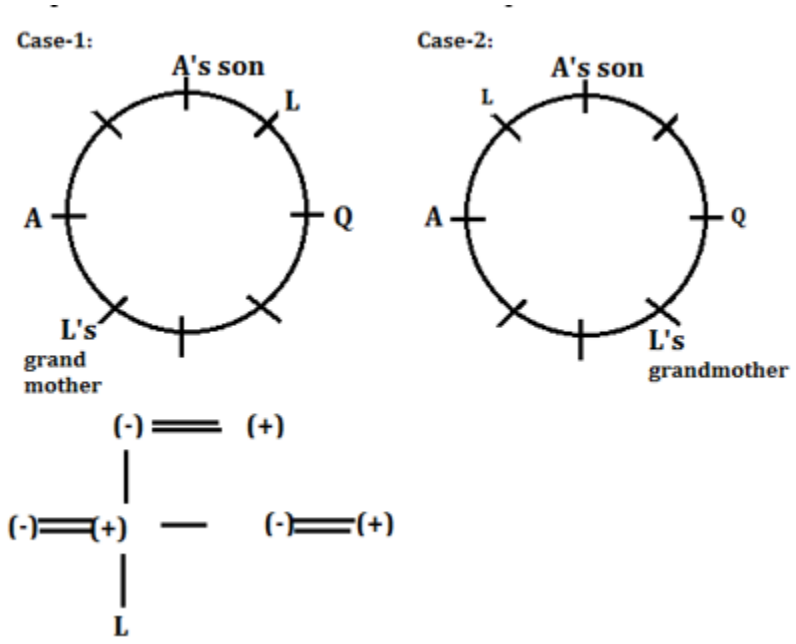


The son-in-law neither sits next to A nor C. The difference between the ages of A's daughter and A's daughter's husband is 3 years. The age of the one who sits immediate left of Q is twice the age of the one who sits immediate right of Q. So, from this case-1 gets eliminated as X's age is 35 years. The difference between the ages of T and his brother-in-law is 10. Now, with case-2, Clearly C's age is 70 years and T's age is 45 years. The difference between the ages of grandfather and grandmother is 6 years. Rest A's age is 76 years. N does not sit opposite to V. So, the final arrangement is----

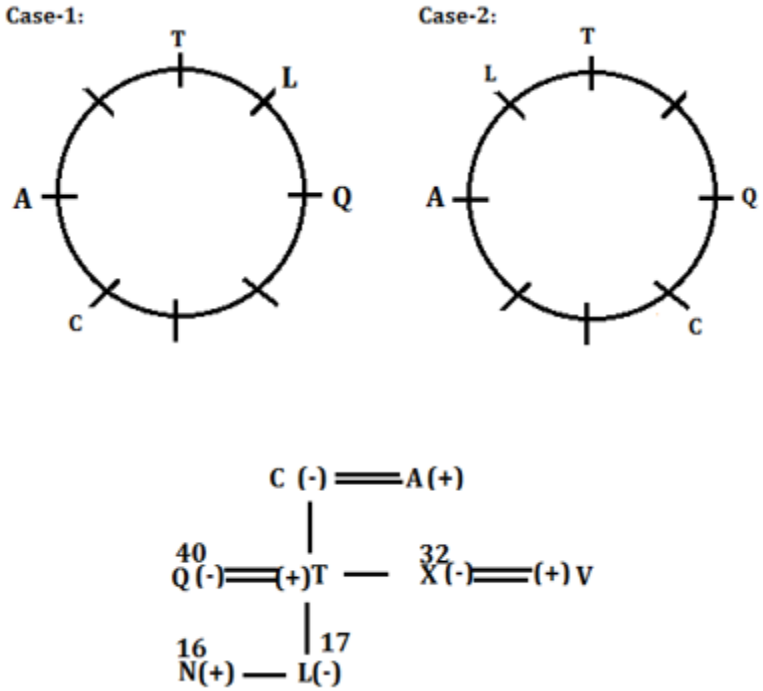


S5. Ans.(c);

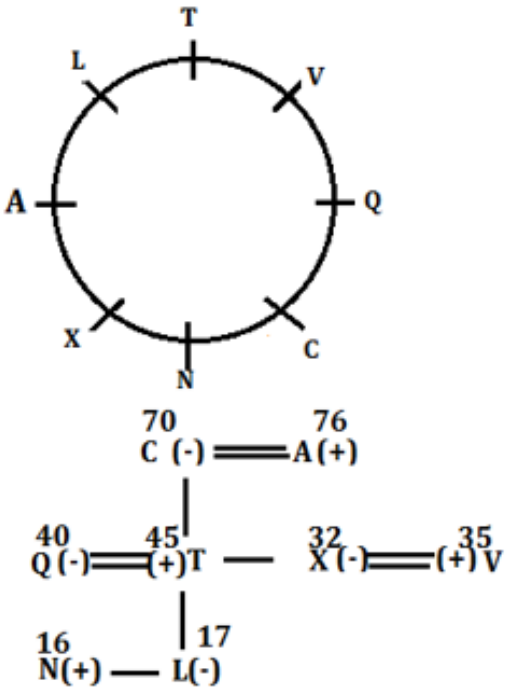
Sol. A's son sits second to the left of A. The grandmother of L sits opposite to L. The difference between the ages of grandfather and grandmother is 6 years. The age of the one who sits immediate left of Q is twice the age of the one who sits immediate right of Q. Only one person sits between A's son and Q.



L is one year older to her brother. The age of the grandson is 16 years. Q's age is 5/2 times of age of her son. The difference between the ages of T and his brother-in-law is 10. X is married to V. X's age is twice of the age of T's son. None of the given person is 42 years old. C is not a male.



The son-in-law neither sits next to A nor C. The difference between the ages of A's daughter and A's daughter's husband is 3 years. The age of the one who sits immediate left of Q is twice the age of the one who sits immediate right of Q. So, from this case-1 gets eliminated as X's age is 35 years. The difference between the ages of T and his brother-in-law is 10. Now, with case-2, Clearly C's age is 70 years and T's age is 45 years. The difference between the ages of grandfather and grandmother is 6 years. Rest A's age is 76 years. N does not sit opposite to V. So, the final arrangement is----



S6. Ans.(b);

Sol. All the numbers are arranged according to the ascending order from both the ends as the lowest number is arranged from the left end and second lowest number is arranged from the right end in step-I. In step II- third lowest number is arranged from the left end while the forth lowest number is arranged from the right end and so on…And also while arranging the numbers each of them is added with the given numbers as 1, 2, 3, 5, 8, 13, 21, 34, 55, 89(Fibonacci series) in the given order.

Input: 82 8 19 51 11 77 38 25 56 23

Step I: 9 82 19 51 77 38 25 56 23 13

Step II: 22 9 82 51 77 38 25 56 13 28

Step III: 33 22 9 82 51 77 56 13 28 51

Step IV: 72 33 22 9 82 77 13 28 51 90

Step V: 132 72 33 22 9 13 28 51 90 171

S7. Ans.(b);

Sol. All the numbers are arranged according to the ascending order from both the ends as the lowest number is arranged from the left end and second lowest number is arranged from the right end in step-I. In step II- third lowest number is arranged from the left end while the forth lowest number is arranged from the right end and so on…And also while arranging the numbers each of them is added with the given numbers as 1, 2, 3, 5, 8, 13, 21, 34, 55, 89(Fibonacci series) in the given order.

Input: 82 8 19 51 11 77 38 25 56 23
Step I: 9 82 19 51 77 38 25 56 23 13
Step II: 22 9 82 51 77 38 25 56 13 28
Step III: 33 22 9 82 51 77 56 13 28 51
Step IV: 72 33 22 9 82 77 13 28 51 90
Step V: 132 72 33 22 9 13 28 51 90 171

S8. Ans.(c);

Sol. All the numbers are arranged according to the ascending order from both the ends as the lowest number is arranged from the left end and second lowest number is arranged from the right end in step-I. In step II- third lowest number is arranged from the left end while the forth lowest number is arranged from the right end and so on…And also while arranging the numbers each of them is added with the given numbers as 1, 2, 3, 5, 8, 13, 21, 34, 55, 89(Fibonacci series) in the given order.

Input: 82 8 19 51 11 77 38 25 56 23
Step I: 9 82 19 51 77 38 25 56 23 13
Step II: 22 9 82 51 77 38 25 56 13 28
Step III: 33 22 9 82 51 77 56 13 28 51
Step IV: 72 33 22 9 82 77 13 28 51 90
Step V: 132 72 33 22 9 13 28 51 90 171

S9. Ans.(b);

Sol. All the numbers are arranged according to the ascending order from both the ends as the lowest number is arranged from the left end and second lowest number is arranged from the right end in step-I. In step II- third lowest number is arranged from the left end while the forth lowest number is arranged from the right end and so on…And also while arranging the numbers each of them is added with the given numbers as 1, 2, 3, 5, 8, 13, 21, 34, 55, 89(Fibonacci series) in the given order.

Input: 82 8 19 51 11 77 38 25 56 23
Step I: 9 82 19 51 77 38 25 56 23 13
Step II: 22 9 82 51 77 38 25 56 13 28
Step III: 33 22 9 82 51 77 56 13 28 51
Step IV: 72 33 22 9 82 77 13 28 51 90
Step V: 132 72 33 22 9 13 28 51 90 171

S10. Ans.(b);

Sol. All the numbers are arranged according to the ascending order from both the ends as the lowest number is arranged from the left end and second lowest number is arranged from the right end in step-I. In step II- third lowest number is arranged from the left end while the forth lowest number is arranged from the right end and so on…And also while arranging the numbers each of them is added with the given numbers as 1, 2, 3, 5, 8, 13, 21, 34, 55, 89(Fibonacci series) in the given order.

Input: 82 8 19 51 11 77 38 25 56 23
Step I: 9 82 19 51 77 38 25 56 23 13
Step II: 22 9 82 51 77 38 25 56 13 28
Step III: 33 22 9 82 51 77 56 13 28 51
Step IV: 72 33 22 9 82 77 13 28 51 90
Step V: 132 72 33 22 9 13 28 51 90 171

S11. Ans.(a);
Sol. P 's position in eating competition was just above U but in drinking competition he was just below R.

Ranks	Eating Competition	Drinking Competition
	P	R
	U	P

S 's position in drinking competition was just above V but in eating competition, he was just below T. No persons were assigned positions between P and S in both competitions.

Ranks	Eating Competition	Drinking Competition
	T	R
	S	P
	P	S
	U	V

At least four persons got positions above P in eating competition and at least four persons are below him in drinking competition. R did not get the highest or the lowest position in any race. U's performance was better than V's in both the competitions. So, the final arrangement is---

Ranks	Eating Competition	Drinking Competition
1	Q	U
2	R	R
3	T	P
4	S	S
5	P	V
6	U	Q/ T
7	V	T /Q

S12. Ans.(d);
Sol. P 's position in eating competition was just above U but in drinking competition he was just below R.

Ranks	Eating Competition	Drinking Competition
	P	R
	U	P

S 's position in drinking competition was just above V but in eating competition, he was just below T. No persons were assigned positions between P and S in both competitions.

Ranks	Eating Competition	Drinking Competition
	T	R
	S	P
	P	S
	U	V

At least four persons got positions above P in eating competition and at least four persons are below him in drinking competition. R did not get the highest or the lowest position in any race. U's performance was better than V's in both the competitions. So, the final arrangement is---

Ranks	Eating Competition	Drinking Competition
1	Q	U
2	R	R
3	T	P
4	S	S
5	P	V
6	U	Q/ T
7	V	T /Q

S13. Ans.(c);

Sol. P 's position in eating competition was just above U but in drinking competition he was just below R.

Ranks	Eating Competition	Drinking Competition
	P	R
	U	P

S 's position in drinking competition was just above V but in eating competition, he was just below T. No persons were assigned positions between P and S in both competitions.

Ranks	Eating Competition	Drinking Competition
	T	R
	S	P
	P	S
	U	V

At least four persons got positions above P in eating competition and at least four persons are below him in drinking competition. R did not get the highest or the lowest position in any race. U's performance was better than V's in both the competitions. So, the final arrangement is---

Ranks	Eating Competition	Drinking Competition
1	Q	U
2	R	R
3	T	P
4	S	S
5	P	V
6	U	Q/ T
7	V	T /Q

S14. Ans.(c);

Sol. P 's position in eating competition was just above U but in drinking competition he was just below R.

Ranks	Eating Competition	Drinking Competition
	P	R
	U	P

S 's position in drinking competition was just above V but in eating competition, he was just below T. No persons were assigned positions between P and S in both competitions.

Ranks	Eating Competition	Drinking Competition
	T	R
	S	P
	P	S
	U	V

At least four persons got positions above P in eating competition and at least four persons are below him in drinking competition. R did not get the highest or the lowest position in any race. U's performance was better than V's in both the competitions. So, the final arrangement is---

Ranks	Eating Competition	Drinking Competition
1	Q	U
2	R	R
3	T	P
4	S	S
5	P	V
6	U	Q/ T
7	V	T /Q

S15. Ans.(a);

Sol. P 's position in eating competition was just above U but in drinking competition he was just below R.

Ranks	Eating Competition	Drinking Competition
	P	R
	U	P

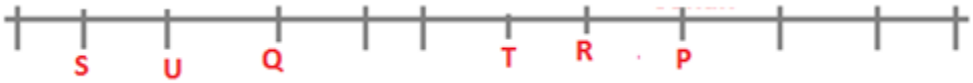
S 's position in drinking competition was just above V but in eating competition, he was just below T. No persons were assigned positions between P and S in both competitions.

Ranks	Eating Competition	Drinking Competition
	T	R
	S	P
	P	S
	U	V

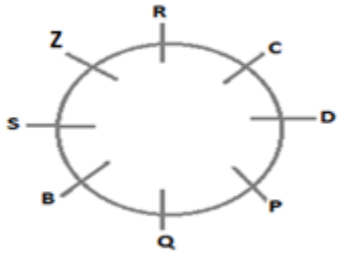
At least four persons got positions above P in eating competition and at least four persons are below him in drinking competition. R did not get the highest or the lowest position in any race. U's performance was better than V's in both the competitions. So, the final arrangement is---

Ranks	Eating Competition	Drinking Competition
1	Q	U
2	R	R
3	T	P
4	S	S
5	P	V
6	U	Q/ T
7	V	T /Q

S16. Ans.(a);
Sol. From I and II-



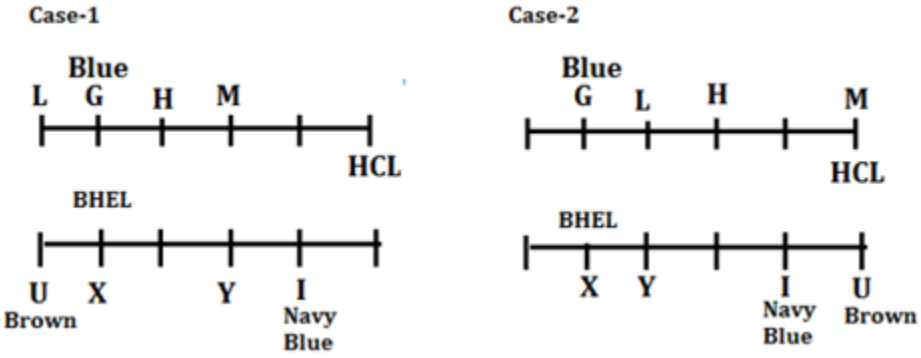
S17. Ans.(b);
Sol. By using I and III statement we can see that all person are arranged in a circular table.



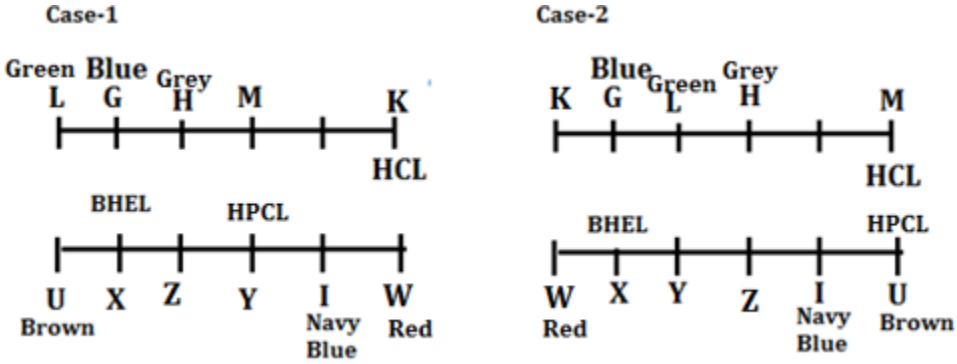
S18. Ans.(e);

S19. Ans.(d);
Sol. The one, who sits at extreme left end of Row 1, works in HCL. I sits third to right of X and has worn Navy blue T-shirt. Neither I nor X sits at extreme ends. G faces X and worn Blue T-shirt. X works in BHEL. H does not face I and H does not sit at any of the extreme ends. H is not an immediate neighbor of G. U sits at one of the extreme ends and has worn Brown colored T-shirt. Only two people sit between U and Y. Two

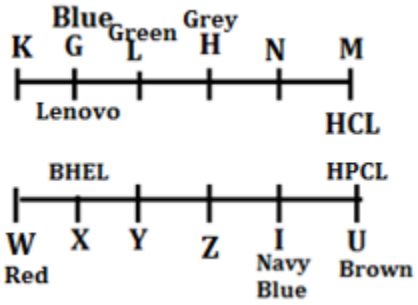
persons sit between M and L. M is not an immediate neighbor of G. So, from this there will be two possible cases---



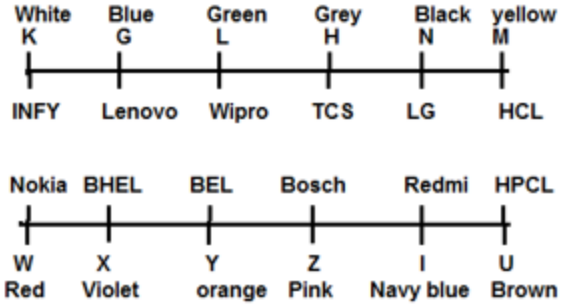
The one who faces M, works in HPCL. L has worn Green T-shirt. K is not an immediate neighbour of M. So, from this case-1 gets eliminated. H has worn Grey colored T-shirt. W does not face H. W has worn Red colored T-shirt.



Y does not face H and his immediate neighbor has worn Violet colored T-shirt. H has worn Grey colored T-shirt. The one who sits immediate left of K, works in Lenovo. So, from this case-1 gets eliminated.

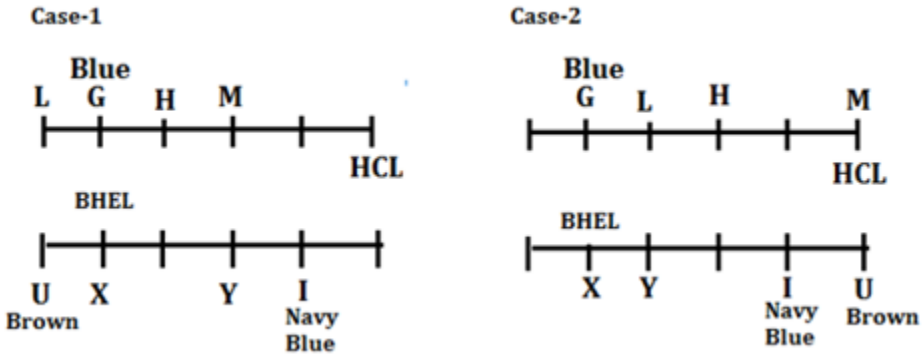


N, Z and Y have worn Black, pink and orange colored T-shirt respectively. The persons, who sits extreme ends of row 1 has worn White and Yellow colored T-shirt. The immediate neighbor of the one, who faces G, works in BEL. L and K work in Wipro and Infy respectively. H works in TCS. The one who sits at extreme end of row 2, works in Nokia. The one, who is working in LG, has worn Black T-shirt. The immediate neighbor of the one, who faces G, works in BEL. The one who faces the one who has worn Black T-shirt, works in Redmi. So, the final arrangement is---

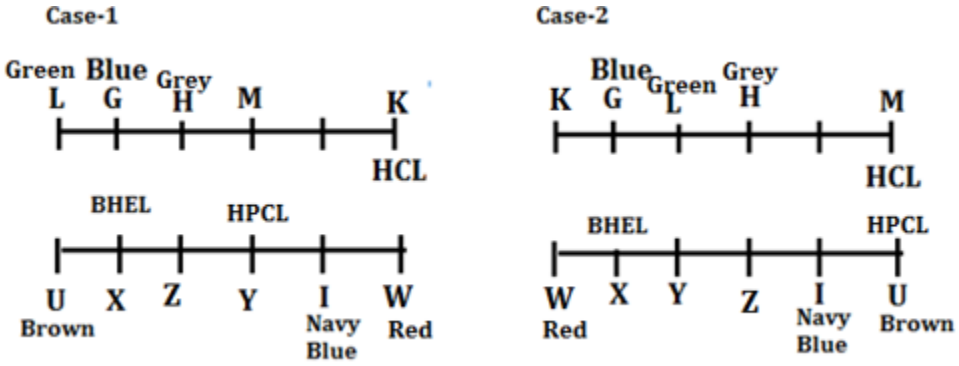


S20. Ans.(e);

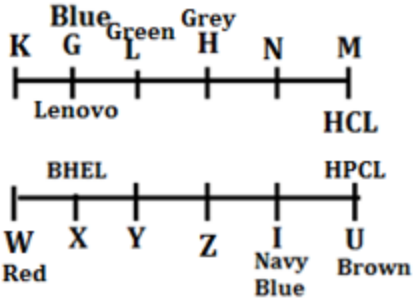
Sol. The one, who sits at extreme left end of Row 1, works in HCL. I sits third to right of X and has worn Navy blue T-shirt. Neither I nor X sits at extreme ends. G faces X and worn Blue T-shirt. X works in BHEL. H does not face I and H does not sit at any of the extreme ends. H is not an immediate neighbor of G. U sits at one of the extreme ends and has worn Brown colored T-shirt. Only two people sit between U and Y. Two persons sit between M and L. M is not an immediate neighbor of G. So, from this there will be two possible cases---



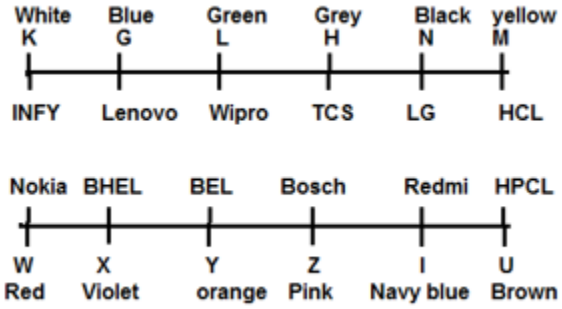
The one who faces M, works in HPCL. L has worn Green T-shirt. K is not an immediate neighbour of M. So, from this case-1 gets eliminated. H has worn Grey colored T-shirt. W does not face H. W has worn Red colored T-shirt.



Y does not face H and his immediate neighbor has worn Violet colored T-shirt. H has worn Grey colored T-shirt. The one who sits immediate left of K, works in Lenovo. So, from this case-1 gets eliminated.

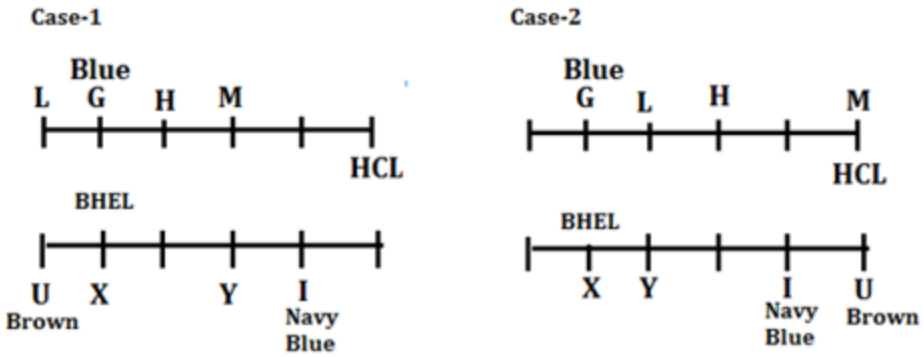


N, Z and Y have worn Black, pink and orange colored T-shirt respectively. The persons, who sits extreme ends of row 1 has worn White and Yellow colored T-shirt. The immediate neighbor of the one, who faces G, works in BEL. L and K work in Wipro and Infy respectively. H works in TCS. The one who sits at extreme end of row 2, works in Nokia. The one, who is working in LG, has worn Black T-shirt. The immediate neighbor of the one, who faces G, works in BEL. The one who faces the one who has worn Black T-shirt, works in Redmi. So, the final arrangement is---

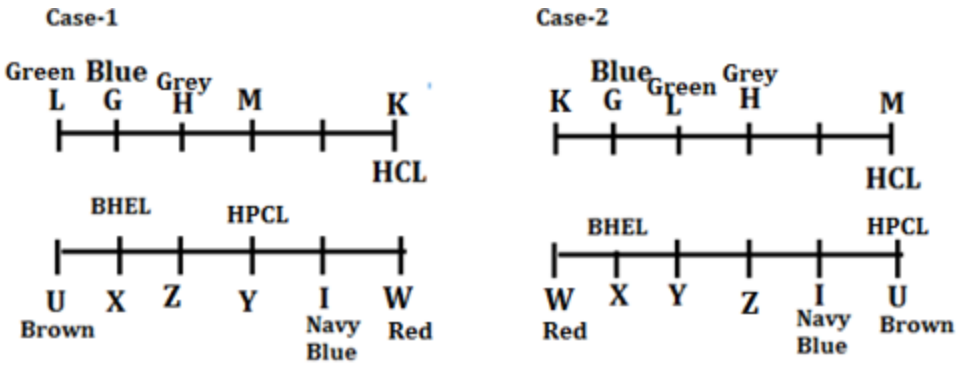


S21. Ans.(c);

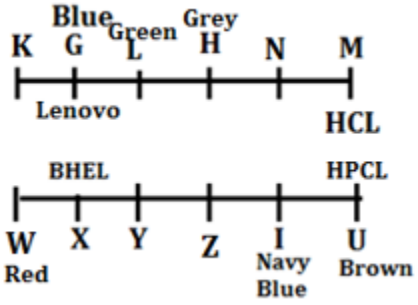
Sol. The one, who sits at extreme left end of Row 1, works in HCL. I sits third to right of X and has worn Navy blue T-shirt. Neither I nor X sits at extreme ends. G faces X and worn Blue T-shirt. X works in BHEL. H does not face I and H does not sit at any of the extreme ends. H is not an immediate neighbor of G. U sits at one of the extreme ends and has worn Brown colored T-shirt. Only two people sit between U and Y. Two persons sit between M and L. M is not an immediate neighbor of G. So, from this there will be two possible cases---



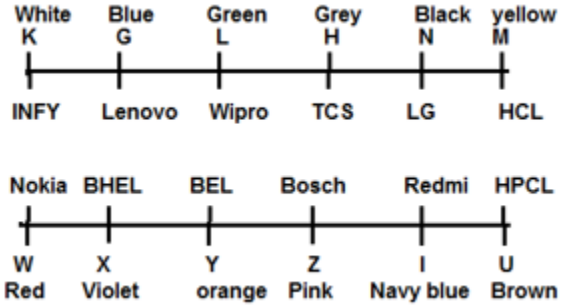
The one who faces M, works in HPCL. L has worn Green T-shirt. K is not an immediate neighbour of M. So, from this case-1 gets eliminated. H has worn Grey colored T-shirt. W does not face H. W has worn Red colored T-shirt.



Y does not face H and his immediate neighbor has worn Violet colored T-shirt. H has worn Grey colored T-shirt. The one who sits immediate left of K, works in Lenovo. So, from this case-1 gets eliminated.

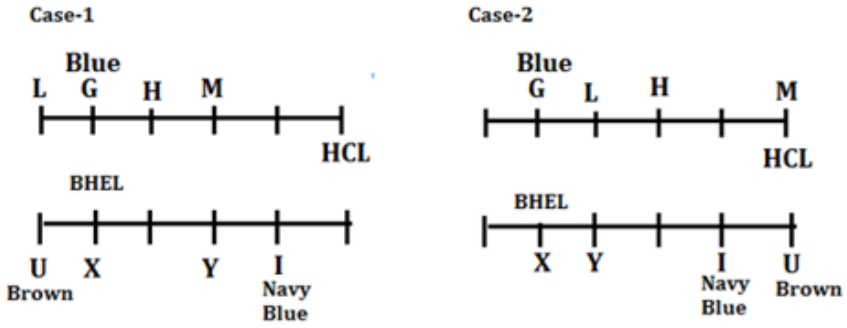


N, Z and Y have worn Black, pink and orange colored T-shirt respectively. The persons, who sits extreme ends of row 1 has worn White and Yellow colored T-shirt. The immediate neighbor of the one, who faces G, works in BEL. L and K work in Wipro and Infy respectively. H works in TCS. The one who sits at extreme end of row 2, works in Nokia. The one, who is working in LG, has worn Black T-shirt. The immediate neighbor of the one, who faces G, works in BEL. The one who faces the one who has worn Black T-shirt, works in Redmi. So, the final arrangement is---

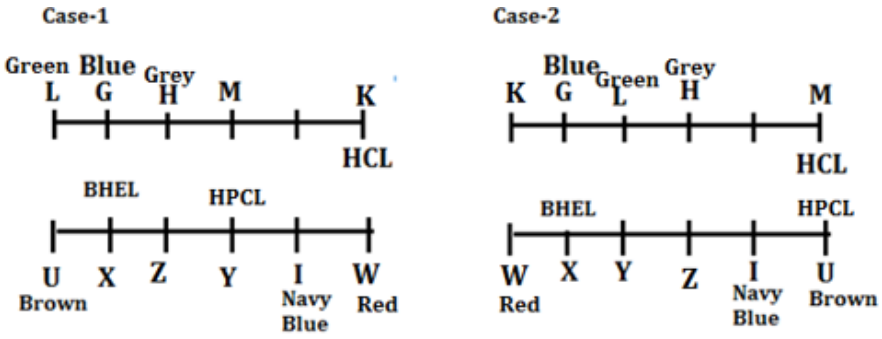


S22. Ans.(b);

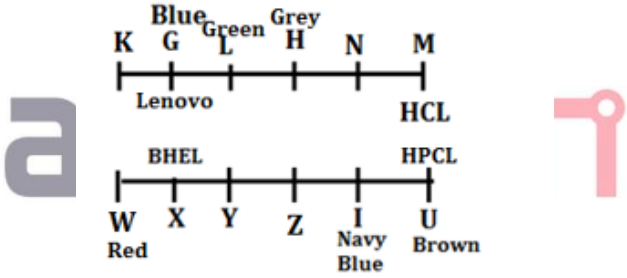
Sol. The one, who sits at extreme left end of Row 1, works in HCL. I sits third to right of X and has worn Navy blue T-shirt. Neither I nor X sits at extreme ends. G faces X and worn Blue T-shirt. X works in BHEL. H does not face I and H does not sit at any of the extreme ends. H is not an immediate neighbor of G. U sits at one of the extreme ends and has worn Brown colored T-shirt. Only two people sit between U and Y. Two persons sit between M and L. M is not an immediate neighbor of G. So, from this there will be two possible cases---



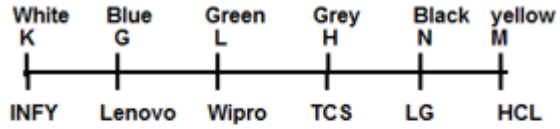
The one who faces M, works in HPCL. L has worn Green T-shirt. K is not an immediate neighbour of M. So, from this case-1 gets eliminated. H has worn Grey colored T-shirt. W does not face H. W has worn Red colored T-shirt.

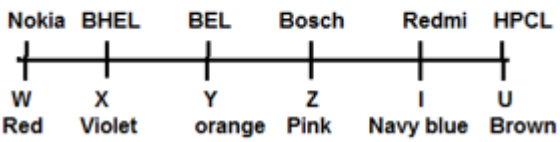


Y does not face H and his immediate neighbor has worn Violet colored T-shirt. H has worn Grey colored T-shirt. The one who sits immediate left of K, works in Lenovo. So, from this case-1 gets eliminated.



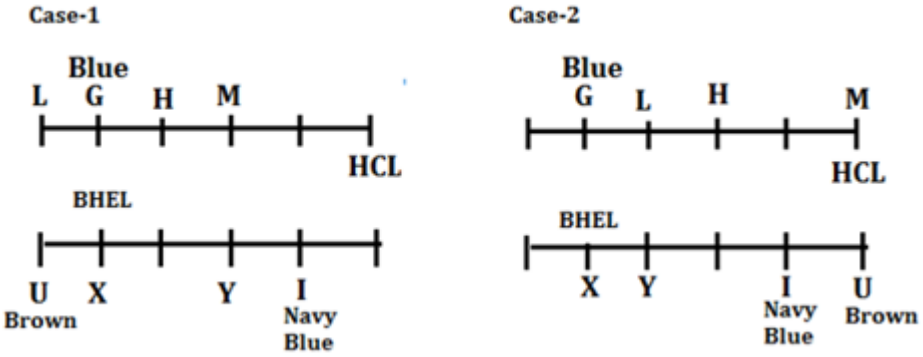
N, Z and Y have worn Black, pink and orange colored T-shirt respectively. The persons, who sits extreme ends of row 1 has worn White and Yellow colored T-shirt. The immediate neighbor of the one, who faces G, works in BEL. L and K work in Wipro and Infy respectively. H works in TCS. The one who sits at extreme end of row 2, works in Nokia. The one, who is working in LG, has worn Black T-shirt. The immediate neighbor of the one, who faces G, works in BEL. The one who faces the one who has worn Black T-shirt, works in Redmi. So, the final arrangement is---



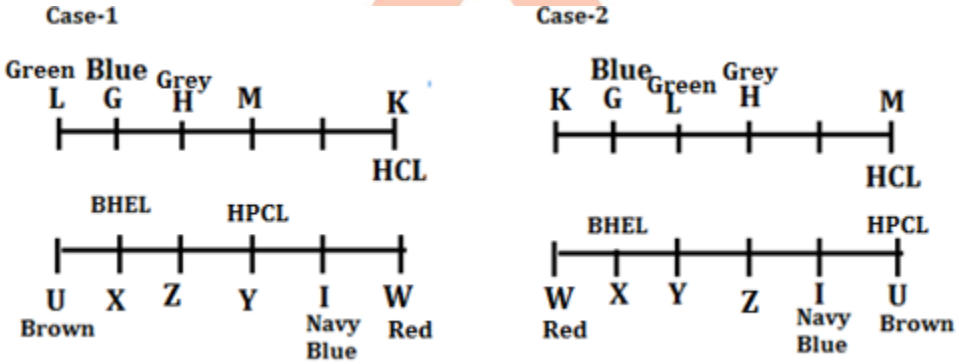


S23. Ans.(b);

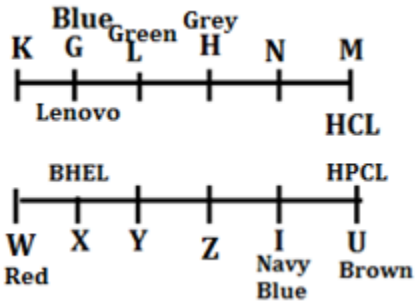
Sol. The one, who sits at extreme left end of Row 1, works in HCL. I sits third to right of X and has worn Navy blue T-shirt. Neither I nor X sits at extreme ends. G faces X and worn Blue T-shirt. X works in BHEL. H does not face I and H does not sit at any of the extreme ends. H is not an immediate neighbor of G. U sits at one of the extreme ends and has worn Brown colored T-shirt. Only two people sit between U and Y. Two persons sit between M and L. M is not an immediate neighbor of G. So, from this there will be two possible cases---



The one who faces M, works in HPCL. L has worn Green T-shirt. K is not an immediate neighbour of M. So, from this case-1 gets eliminated. H has worn Grey colored T-shirt. W does not face H. W has worn Red colored T-shirt.

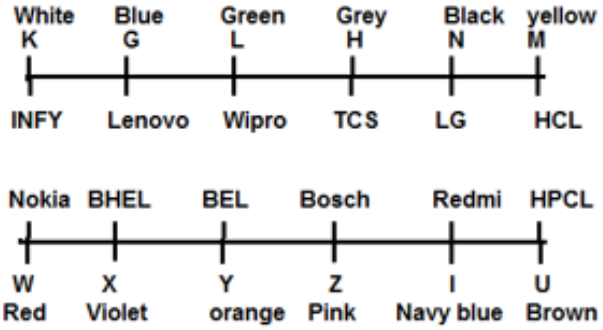


Y does not face H and his immediate neighbor has worn Violet colored T-shirt. H has worn Grey colored T-shirt. The one who sits immediate left of K, works in Lenovo. So, from this case-1 gets eliminated.



N, Z and Y have worn Black, pink and orange colored T-shirt respectively. The persons, who sits extreme ends of row 1 has worn White and Yellow colored T-shirt. The immediate neighbor of the one, who faces G, works in BEL. L and K work in Wipro and Infy respectively. H works in TCS. The one who sits at extreme end of row 2, works in Nokia. The one, who is working in LG, has worn Black T-shirt. The immediate

neighbor of the one, who faces G, works in BEL. The one who faces the one who has worn Black T-shirt, works in Redmi. So, the final arrangement is---



S24. Ans.(d);
Sol. According to maternity benefit leave, leave of 26 weeks is getting. So, the mother who is ready for surrogacy will not bother about it. And this amendment will support surrogacy. Commissioning mother will not face the delivery process. So, 12 weeks maternity leave is enough and they will not demand for more leaves. Adopting a child of any age is a call from adopting mother and father. For 12 weeks paid leave adopting mother will not kill their feelings, emotion and independencies to adopt child.

S25. Ans.(c);
Sol. Only I and III nullify the contribution of surrogate mother. Both the statement are talking about are demanding money and disrespect towards the surrogate mother, both these two statements negates the contribution of surrogate mother.

S26. Ans.(c);
Sol. In this new pattern coding decoding each letter, except vowel, is assigned a number from 0-6 So, B-0, C-1, D-2, F-3, G-4, H-5, J-6, K-0, L-1, M-2, N-3, P-4, Q-5, R-6, S-0, T-1, V-2, W-3, X-4, Y-5, Z-6.
Each vowel is assigned different letters. So, for vowels the letters are - A-b, E-f, I-j, O- p, U-v.

CURRENT - No Condition applied- 1v66f31
AFFAIRS- Condition (ii) applied-%33bj6%

S27. Ans.(b);
Sol. In this new pattern coding decoding each letter, except vowel, is assigned a number from 0-6 So, B-0, C-1, D-2, F-3, G-4, H-5, J-6, K-0, L-1, M-2, N-3, P-4, Q-5, R-6, S-0, T-1, V-2, W-3, X-4, Y-5, Z-6.
Each vowel is assigned different letters. So, for vowels the letters are - A-b, E-f, I-j, O- p, U-v.

SMART- No Condition applied- 02b61
WORK- No Condition applied- 3p60

S28. Ans.(d);
Sol. In this new pattern coding decoding each letter, except vowel, is assigned a number from 0-6 So, B-0, C-1, D-2, F-3, G-4, H-5, J-6, K-0, L-1, M-2, N-3, P-4, Q-5, R-6, S-0, T-1, V-2, W-3, X-4, Y-5, Z-6.
Each vowel is assigned different letters. So, for vowels the letters are - A-b, E-f, I-j, O- p, U-v.

IMMEDIATE- No Condition applied- j22f2jb1f
EFFECT- Condition (ii) applied-%33f1%

S29. Ans.(a);
Sol. In this new pattern coding decoding each letter, except vowel, is assigned a number from 0-6 So, B-0, C-1, D-2, F-3, G-4, H-5, J-6, K-0, L-1, M-2, N-3, P-4, Q-5, R-6, S-0, T-1, V-2, W-3, X-4, Y-5, Z-6.
Each vowel is assigned different letters. So, for vowels the letters are - A-b, E-f, I-j, O- p, U-v.
GIVE- Condition (i) applied- @j2@
ANSWER- Condition (ii) applied- %303f%

S30. Ans.(d);
Sol. In this new pattern coding decoding each letter, except vowel, is assigned a number from 0-6 So, B-0, C-1, D-2, F-3, G-4, H-5, J-6, K-0, L-1, M-2, N-3, P-4, Q-5, R-6, S-0, T-1, V-2, W-3, X-4, Y-5, Z-6.
Each vowel is assigned different letters. So, for vowels the letters are - A-b, E-f, I-j, O- p, U-v.

FIND- No Condition applied-3j32
SOLUTION- No Condition applied-0p1v1jp3

S31. Ans.(d);
Sol. In this question, we have to pick out the statement which nullifies the India's equal society objective.
For Statement I: No, 1st statement supports the India's equal society objective. It describes the step taken by central Govt. i.e. ban of red beacon.
For Statement II: No, 2nd statement tells about the objective of central Govt. to bring democratic equality which is a supportive statement for India's equal society objective.
For Statement III: Yes, 3rd statement nullifies the India's equal society objective because It describes the show off of power and status by VIP's in the shadow of security which is against the India's equal society culture.

S32. Ans.(c);
Sol. In this question we have to select that statement which is not related to the objective mentioned in the passage.
For Statement I: Wrong, It is related to the democratic equality, It states about the reservation of VIP's which affects the India's social equality objective.
For Statement II: Wrong, It is also related to the passage objective, it tells about the preference given to VIP's. It is also a concerned matter for India's social equality objective.
For Statement III: Correct, it is not related to the objective which is mentioned in the passage. Making judgment by oneself means taking law in hand. It is not related to democratic equality.

S33. Ans.(d);
Sol. Class of English takes place from 12 am to 1:00 pm. Only one class took place between the classes of English and Economics. The duration of the class of Economics is twice the duration of the class of English. Only one subject's class took place between the classes of Biology and Physics. Biology's class started at 4:30 pm.

Case 1	
Subjects	Time Slots
Economics(2hrs)	
English	12:00 am to 1:00 pm
Physics	1:00 pm
	to 4:30 pm
Biology	4:30 pm

Case 2	
Subjects	Time Slots
English	12:00 am to 1:00 pm
Economics(2hrs)	
Physics	
	To 4:30 pm
Biology	4:30 pm

Case 3	
Subjects	Time Slots
English	12:00 am to 1:00 pm
Physics	1:00 pm to 2:30 pm
Economics(2hrs)	2:30 pm to 4:30 pm
Biology	4:30 pm

Maths class took place immediately before chemistry class. So, from these statement case 1 and case 2 is eliminated. Number of class took place between Hindi and English is same as between Biology and English.

Case 3	
Subjects	Time Slots
Hindi	
Maths	
Chemistry	
English	12:00 am to 1:00 pm
Physics	1:00 pm to 2:30 pm
Economics	2:30 pm to 4:30 pm
Biology	4:30 pm

The duration of classes of Physics and Math is same. The total duration of the classes of Hindi, Math and chemistry is 5:30 hrs. The duration of class of Hindi is half an hour more than that of Math. The duration of the class of Chemistry is 30 minutes more than the time duration of the class of Biology.

Case 3	
Subjects	Time Slots
Hindi	6:30 am to 8:30 am
Maths	8:30 am to 10:00 am
Chemistry	10:00 am to 12:00 am
English	12:00am to 1:00 pm
Physics	1:00 pm to 2:30 pm
Economics	2:30 pm to 4:30 pm
Biology	4:30 pm to 6:00 pm

S34. Ans.(a);

Sol. Class of English takes place from 12 am to 1:00 pm. Only one class took place between the classes of English and Economics. The duration of the class of Economics is twice the duration of the class of English. Only one subject's class took place between the classes of Biology and Physics. Biology's class started at 4:30 pm.

Case 1	
Subjects	Time Slots
Economics(2hrs)	
English	12:00 am to 1:00 pm
Physics	1:00 pm
	to 4:30 pm
Biology	4:30 pm

Case 2	
Subjects	Time Slots
English	12:00 am to 1:00 pm
Economics(2hrs)	
Physics	
	To 4:30 pm
Biology	4:30 pm

Case 3	
Subjects	Time Slots
English	12:00 am to 1:00 pm
Physics	1:00 pm to 2:30 pm
Economics(2hrs)	2:30 pm to 4:30 pm
Biology	4:30 pm

Maths class took place immediately before chemistry class. So, from these statement case 1 and case 2 is eliminated. Number of class took place between Hindi and English is same as between Biology and English.

Case 3	
Subjects	Time Slots
Hindi	
Maths	
Chemistry	
English	12:00 am to 1:00 pm
Physics	1:00 pm to 2:30 pm
Economics	2:30 pm to 4:30 pm
Biology	4:30 pm

The duration of classes of Physics and Math is same. The total duration of the classes of Hindi, Math and chemistry is 5:30 hrs. The duration of class of Hindi is half an hour more than that of Math. The duration of the class of Chemistry is 30 minutes more than the time duration of the class of Biology.

Case 3	
Subjects	Time Slots
Hindi	6:30 am to 8:30 am
Maths	8:30 am to 10:00 am
Chemistry	10:00 am to 12:00 am
English	12:00am to 1:00 pm
Physics	1:00 pm to 2:30 pm
Economics	2:30 pm to 4:30 pm
Biology	4:30 pm to 6:00 pm

S35. Ans.(b);

Sol. Class of English takes place from 12 am to 1:00 pm. Only one class took place between the classes of English and Economics. The duration of the class of Economics is twice the duration of the class of English. Only one subject's class took place between the classes of Biology and Physics. Biology's class started at 4:30 pm.

Case 1	
Subjects	Time Slots
Economics(2hrs)	
English	12:00 am to 1:00 pm
Physics	1:00 pm
	to 4:30 pm
Biology	4:30 pm

Case 2	
Subjects	Time Slots
English	12:00 am to 1:00 pm
Economics(2hrs)	
Physics	
	To 4:30 pm
Biology	4:30 pm

Case 3	
Subjects	Time Slots
English	12:00 am to 1:00 pm
Physics	1:00 pm to 2:30 pm
Economics(2hrs)	2:30 pm to 4:30 pm
Biology	4:30 pm

Maths class took place immediately before chemistry class. So, from these statement case 1 and case 2 is eliminated. Number of class took place between Hindi and English is same as between Biology and English.

Case 3	
Subjects	Time Slots
Hindi	
Maths	
Chemistry	
English	12:00 am to 1:00 pm
Physics	1:00 pm to 2:30 pm
Economics	2:30 pm to 4:30 pm
Biology	4:30 pm

The duration of classes of Physics and Math is same. The total duration of the classes of Hindi, Math and chemistry is 5:30 hrs. The duration of class of Hindi is half an hour more than that of Math. The duration of the class of Chemistry is 30 minutes more than the time duration of the class of Biology.

Case 3	
Subjects	Time Slots
Hindi	6:30 am to 8:30 am
Maths	8:30 am to 10:00 am
Chemistry	10:00 am to 12:00 am
English	12:00am to 1:00 pm
Physics	1:00 pm to 2:30 pm
Economics	2:30 pm to 4:30 pm
Biology	4:30 pm to 6:00 pm

S36. Ans.(c);

Sol. Class of English takes place from 12 am to 1:00 pm. Only one class took place between the classes of English and Economics. The duration of the class of Economics is twice the duration of the class of English. Only one subject's class took place between the classes of Biology and Physics. Biology's class started at 4:30 pm.

Case 1	
Subjects	Time Slots
Economics(2hrs)	
English	12:00 am to 1:00 pm
Physics	1:00 pm
	to 4:30 pm
Biology	4:30 pm

Case 2	
Subjects	Time Slots
English	12:00 am to 1:00 pm
Economics(2hrs)	
Physics	
	To 4:30 pm
Biology	4:30 pm

Case 3	
Subjects	Time Slots
English	12:00 am to 1:00 pm
Physics	1:00 pm to 2:30 pm
Economics(2hrs)	2:30 pm to 4:30 pm
Biology	4:30 pm

Maths class took place immediately before chemistry class. So, from these statement case 1 and case 2 is eliminated. Number of class took place between Hindi and English is same as between Biology and English.

Case 3	
Subjects	Time Slots
Hindi	
Maths	
Chemistry	
English	12:00 am to 1:00 pm
Physics	1:00 pm to 2:30 pm
Economics	2:30 pm to 4:30 pm
Biology	4:30 pm

The duration of classes of Physics and Math is same. The total duration of the classes of Hindi, Math and chemistry is 5:30 hrs. The duration of class of Hindi is half an hour more than that of Math. The duration of the class of Chemistry is 30 minutes more than the time duration of the class of Biology.

Case 3	
Subjects	Time Slots
Hindi	6:30 am to 8:30 am
Maths	8:30 am to 10:00 am
Chemistry	10:00 am to 12:00 am
English	12:00am to 1:00 pm
Physics	1:00 pm to 2:30 pm
Economics	2:30 pm to 4:30 pm
Biology	4:30 pm to 6:00 pm

S37. Ans.(b);

Sol. Class of English takes place from 12 am to 1:00 pm. Only one class took place between the classes of English and Economics. The duration of the class of Economics is twice the duration of the class of English. Only one subject's class took place between the classes of Biology and Physics. Biology's class started at 4:30 pm.

Case 1	
Subjects	Time Slots
Economics(2hrs)	
English	12:00 am to 1:00 pm
Physics	1:00 pm
	to 4:30 pm
Biology	4:30 pm

Case 2	
Subjects	Time Slots
English	12:00 am to 1:00 pm
Economics(2hrs)	
Physics	
	To 4:30 pm
Biology	4:30 pm

Case 3	
Subjects	Time Slots
English	12:00 am to 1:00 pm
Physics	1:00 pm to 2:30 pm
Economics(2hrs)	2:30 pm to 4:30 pm
Biology	4:30 pm

Maths class took place immediately before chemistry class. So, from these statement case 1 and case 2 is eliminated. Number of class took place between Hindi and English is same as between Biology and English.

Case 3	
Subjects	Time Slots
Hindi	
Maths	
Chemistry	
English	12:00 am to 1:00 pm
Physics	1:00 pm to 2:30 pm
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Biology	4:30 pm

The duration of classes of Physics and Math is same. The total duration of the classes of Hindi, Math and chemistry is 5:30 hrs. The duration of class of Hindi is half an hour more than that of Math. The duration of the class of Chemistry is 30 minutes more than the time duration of the class of Biology.

Case 3	
Subjects	Time Slots
Hindi	6:30 am to 8:30 am
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Chemistry	10:00 am to 12:00 am
English	12:00am to 1:00 pm
Physics	1:00 pm to 2:30 pm
Economics	2:30 pm to 4:30 pm
Biology	4:30 pm to 6:00 pm

S38. Ans.(a);

Sol. The functions performed by the skin are complicated and highly specialized. Option (a) properly identifies this conclusion. Option (b) is a partial conclusion; the specialized nature of the skin is missing. The passage doesn't attempt a comparison on the importance of different sense organs, so (c) can be ruled out. Option (d) merely restates the information in the passage in simple words.

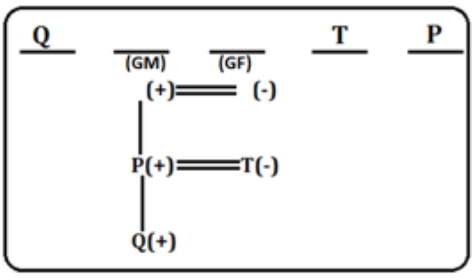
S39. Ans.(c);

S40. Ans.(c);

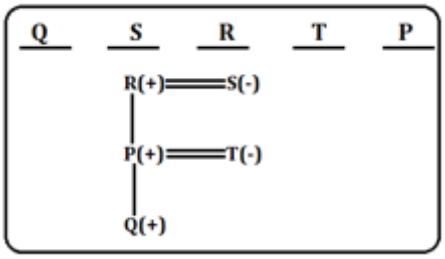
S41. Ans.(b);

S42. Ans.(c);

Sol. Grandfather of Q is sitting in the middle of the row. Mother in law of T is sitting second to the left of wife of P. There are two persons between P's wife and grandson of R. So, there will one possible case.

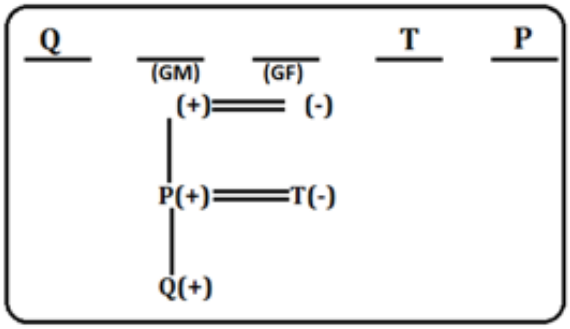


S is not a male. So, we get our final arrangement.

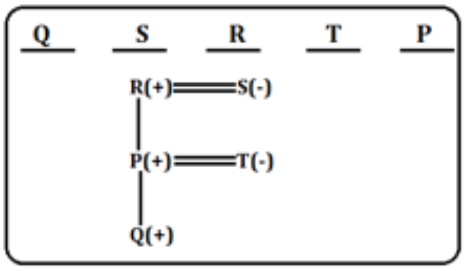


S43. Ans.(c);

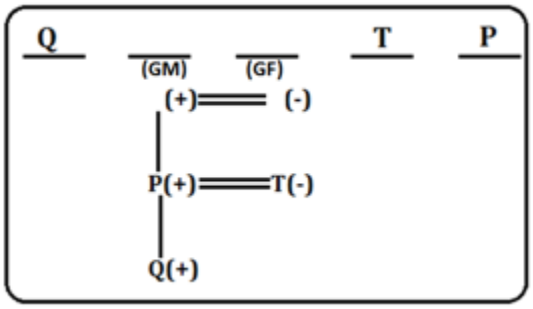
Sol. Grandfather of Q is sitting in the middle of the row. Mother in law of T is sitting second to the left of wife of P. There are two persons between P's wife and grandson of R. So, there will one possible case.



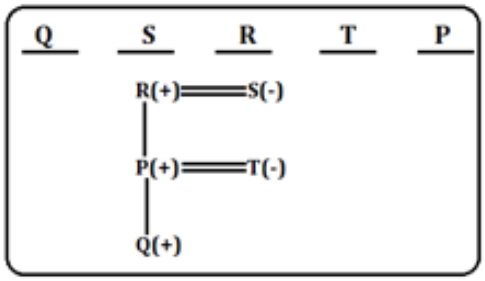
S is not a male. So, we get our final arrangement.



S44. Ans.(a);
Sol. Grandfather of Q is sitting in the middle of the row. Mother in law of T is sitting second to the left of wife of P. There are two persons between P's wife and grandson of R. So, there will one possible case.



S is not a male. So, we get our final arrangement.



S45. Ans.(b);
Sol. A peer-to-peer (P2P) network is group of computers, each of which acts as a node for sharing files within the group. Instead of having a central server to act as a shared drive, each computer acts as the server for the files stored upon it.

S46. Ans.(d);
Sol.

From (1), no. of blue balls = ${}^5c_2 = \frac{5\times4}{2} = 10$

No. of red balls = $10 \times 2 = 20$

From (2), suppose no. of red balls = x

& total no. of balls = y

Then, $\frac{x-5}{y-5} = \frac{1}{2}$

From (3), Probability of choosing a green ball $= \frac{1}{7}$

Using (1) & (3)

Let no. of green balls be 'a'.

Then,

$\frac{a}{(10+20+a)} = \frac{1}{7}$

or, $\frac{a}{30+a} = \frac{1}{7}$

or, $7a = 30 + a$

or, $a = 5$

Hence, Probability of choosing a blue ball $= \frac{10}{10+20+5} = \frac{10}{35} = \frac{2}{7}$

Using (2) & (1),

$x = 20$ and let no. of green balls $= b$

then, $y = 20 + 10 + b$

$\frac{20-5}{20+10+b-5} = \frac{1}{2}$

or, $b = 5$

Hence, probability of choosing a blue ball $= \frac{10}{10+20+5} = \frac{10}{35} = \frac{2}{7}$

S47. Ans.(e);

Sol. From (1), when Rahul covers 1000 m, Vikas covers 800 m.

From (2), when Vikram covers 1000 m, Dev covers 750 m.

From (3), when Rahul covers 1000 m, Dev covers 760 m.

Using all 3, we may conclude that Vikram is the fastest among all.

S48. Ans.(c);

Sol.

From (1), $M^2 - N^2 = 2K$

$(M - N)(M + N) = 2K$

Either both of M and N are even or both are odd.

From (2), $3(M + N) = 14N$

or, $3M = 11N$

or, $\frac{M}{N} = \frac{11}{3}$

From (3), Either M and N both are odd or both are even

We can't conclude anything about M even after combining the statements

S49. Ans.(a);

Sol.

From (1), Ratio of eff. of A and B is 2 : 3
Ratio of eff. of A and C is 1 : 2
Ratio of eff. of D and C is 1 : 4
Ratio of eff. of A, B, C & D is 2 : 3 : 4 : 1

From (2), total days taken by all = 8 days.

From (3), if eff. of A and B combined is equal to eff. of C and D combined

Using (1) and (2), days taken by B and D

$= \frac{(2+3+4+1)B}{(3+1)}$

$= \frac{10\times 8}{4}$

= 20 days

S50. Ans.(c);

Sol.

From (2), total distance $= \frac{50\times 2}{2} = 50$ km.

From (1), Total dis. $= 60 \times \left(t - \frac{10}{60}\right)$

From (3), Total dis. $= 40 \times \left(t + \frac{15}{60}\right)$

Using (1) & (3),

$60\left(t - \frac{10}{60}\right) = 40\left(t + \frac{15}{60}\right)$

$\Rightarrow t = 1$

Hence, total dis. $= 60\left(1 - \frac{1}{6}\right) = 50$ km.

S51. Ans.(c);

Sol.

Amar attempted total of 75 question in which 9 do not have negative marking.

Total correct questions of Amar

$= \frac{80}{100} \times 75 = 60$

If his all non-negative marking questions were correct, then his score

$= 60 \times 3 - (15 \times 1) - (0.5 \times 25)$

[12.5 marks are subtracted for his un attempted questions]

$= 180 - 27.5 = 152.5$

If his all non-negative marking questions were wrong, it means 6 of his questions which carry negative marks were wrong.

$= 60 \times 3 - (6 \times 1) - (0.5 \times 25)$

$= 180 - 18.5$

$= 161.5$

S52. Ans.(d);

Sol.

Total questions attempted by Prem

$= \frac{80}{100} \times 75$

$= 60$

Total correct questions of Prem

$= \frac{90}{100} \times 60$

$= 54$

His 6 questions were wrong and 3 were negative marking questions.

Therefore his score, is

$= 54 \times 3 - (3 \times 1) - (40 \times 0.5)$

$= 162 - 3 - 20$

$= 139$

S53. Ans.(b);

Sol.

Prem, attempted total of 60 questions and 54 were incorrect.

34 questions of section A were correct.

He attempted, 16 question $\left[\frac{50}{100} \times 32\right]$ of section C and 6 were incorrect.

Score from section C $= 10 \times 3 - (6 \times 1) - (16 \times 0.5) = 16$

If 6 questions from section C were wrong, it means all the questions, which he attempted from section B were correct.

He attempted total of $(60 - 34 - 16) = 10$ question from section B

Score from section B $= 10 \times 3 - 24\ (0.5)$

$= 30 - 12 = 18$

Required difference $= |16 - 18| = 2$

S54. Ans.(a);

Sol.

Correct question for Amar

$= \frac{80}{100} \times 75 = 60$

Score of Amar $= 60 \times 3 - (15 \times 1) - (25 \times 0.5)$

$= 180 - 27.5$

$= 152.5$

Score of Prem $= 54 \times 3 - (40 \times 0.5)$

$= 162 - 20$

$= 142$

Required difference $= 10.5$

S55. Ans.(e);
Sol.
Let he attempted x correct questions.
& (75 – x) wrong questions. But (75 – x – 4)
carries negative marking. Therefore
His score
$3x - (71 - x) - 25 \times (0.5) = 108.5$
$= 3x - 71 + x = 121$
$4x = 192$
$x = 48$
hence option (e)

S56. Ans.(c);
Sol.
Candidate of party XYZ obtained
$= \frac{25}{100} \times 300000$
= 75000 votes
Therefore, Total votes polled in constituency B
$= \frac{100}{25} \times 70000$
= 30000
Runner up candidate got = 75000 – 7000 = 68000
Now for maximum number of candidates, all
of the other should get min. possible votes
= Remaining votes = 300000 – [75000 + 68000] = 157000
Min. votes possible 12000
Maximum candidates $= \frac{157000}{12000} \approx 13$
Hence total number of candidates is 13 + 2 = 15

S57. Ans.(a);
Sol.

Votes scored by party XYZ from C

$= \frac{37.5}{100} \times 300000 = 112500$

As party obtained 50% votes, therefore

Total votes polled in constituency E

$= 2 \times 112500 - 45000$

$= 225000 - 45000$

$= 180000$

Votes scored by winner candidates from E

$= \frac{65}{100} \times 180000$

$= 117000$

Votes scored by party from E

$= \frac{12.5}{100} \times 300000$

$= 37500$

Required answer = 117000 – 37500 = 79500

S58. Ans.(a);
Sol.

Votes secured by party XYZ from A

$= \frac{10}{100} \times 300000 = 30000$

Votes secured by party XYZ from D

$= \frac{15}{100} \times 30000 = 45000$

If party wins from A, total votes from A

$= \frac{100}{30} \times 3000 = 100000$

votes from D

winner candidate got = 45000 + 15000 = 60000 votes

Total votes polled in D $= \frac{100}{40} \times 60000 = 150000$ votes

Difference = 150000 – 100000 = 50000

If party wins from D, total votes from D

$= 45000 \times \frac{100}{40}$

$= 112500$

& winner candidate from A got

$= 30000 + 15000$

$= 45000$ votes

Total votes polled in constituency A

$= \frac{10}{30} \times 45000$

$= 150000$

Difference = 37500.

But maximum difference is of 50000,

hence option a is the answer.

S59. Ans.(b);

Sol.

Votes scored by winner candidate in constituency E

$= \frac{65}{100} \times 180000$

$= 117000$

Votes scored by party XYZ

$= \frac{12.5}{100} \times 300000$

$= 37500$

They lost by 117000 – 37500 = 79500 votes

Hence winner candidate from constituency A got

= 30000 + 79500

= 109500

Hence votes polled in A

$= \frac{100}{30} \times 109500$

$\cong 365000$

S60. Ans.(d);

Sol.

(i)

If Party XYZ wins from C, total votes polled in constituency is

$= 2 \times \frac{37.5}{100} \times 30000$

$= 225000$

Candidate of party XYZ got 75000 votes from constituency B.

If these constituencies have equal votes, winner candidate gets

$= \frac{25}{100} \times 225000$

$= 57750$

Hence it is not possible.

(ii) Party got, 37500 votes from E, which is 35% of total polled votes (If we assume only 2 candidates). Hence winner must have more than twice votes.

It is also not possible.

(iii) It is possible, and we can't check it whether party lost or won.

(iv) it is also possible, as we don't have information on number of votes.

S61. Ans.(b);

Sol.

Let the total volume of tank is 100m.

Let efficiency of pipe B is 6x/hour

And that of pipe A is 8x/hour

Water flowing in the tank when all three pipes were opened in an hour= 6x + 8x – 40

= 14x – 40 ltr. (This is 25% of volume of tank+ 10 liters)

Water filled in tank in initial $\frac{13}{7}$ hours is $14x \times \frac{13}{7} = 26\ x\ liters$

Now this 14x-40 + 26x = 40x – 40 is total volume of tank.

Now 25 % of this total volume is $\frac{25}{100} \times (40x - 40) = 10x - 10$

ATQ,

10x – 10 + 10 = 14x – 40

4x = 40

X = 10 liters

Hence, volume of tank is 4x – 40 = 400 – 40 = 360 litres.

Hence, C will fill tank in $\frac{360}{40}$ = 9 hours.

S62. Ans.(b);

Sol.

Let A fills 8x/hour water.

While B fills 6x/hour water

When all pipes were opened together

They will fill (8x + 6x – 40) liters/hour.

14x – 40 liters is 10 liters less than 25% of tank's efficiency.

It means 25% efficiency of the tank will be (14x- 30) liters.

Total efficiency of tank will be $\frac{100}{25}(14x - 30)$ = 56x – 120.

In 4 hours, pipe A will fill $8x \times 4 = 32x\ liters$.

ATQ,

32x = 56x – 120

X = 5.

Hence volume of tank is 32×5= 160 liters.

S63. Ans.(b);

Sol.

Let the MP of a chair and a table be Rs.5x and Rs.8x respectively.

And, the number of chairs and tables bought be 6y and 5y respectively.

CP of a chair for Abhishek = (100 – 20)% of 5x = Rs.4x

CP of a table for Abhishek = (100 – 25)% of 8x = Rs.6x

Total CP for Abhishek = 4x × 6y + 6x × 5y = 24xy + 30xy = 54xy

SP of a chair for Abhishek = (100 – 25)% of (100 + 50)% of 4x = 4.5x

SP of a table for Abhishek = (100 – 20)% of (100 + 50)% of 6x = 7.2x

Number of chairs sold in bunch of four by Abhishek = $\frac{2}{3}$rd of 6y = 4y

So, number of table sold for free by Abhishek = $\frac{1}{4}$th of 4y = y

Total SP for Abhishek = 4.5x × 6y + 7.2x × (5y – y) = 27xy + 28.8xy = 55.8xy

Profit % = $\frac{55.8xy - 54xy}{54xy} \times 100 = \frac{1.8xy}{54xy} \times 100 = 3\frac{1}{3}\%$

S64. Ans.(c);

Sol.

According to the question,

MP of a table = 300 + MP of a chair

$\Rightarrow 8x = 300 + 5x$

$\Rightarrow x = 100$

Total CP for Abhishek = 108000

$\Rightarrow 54xy = 108000$

$\Rightarrow 54 \times 100 \times y = 108000$

$\Rightarrow y = 20$

Number of chairs purchased by Abhishek = 6y = 120

S65. Ans.(d)

Sol.

$$\text{speed of boat in still water} = \left(10 + 10 \times \frac{80}{100}\right) \text{km/hr}$$

$= 18\ \text{km/hr}$

ATQ—

$$\frac{280}{(18+10)} + \frac{280}{(18+10)+s} + \frac{560}{(18-10)+s} = 45$$

$$\frac{280}{28+s} + \frac{560}{8+s} = 35$$

$$\frac{8}{28+s} + \frac{16}{8+s} = 1$$

$64 + 8s + 448 + 16s = 224 + 28s + 8s + s^2$

$s^2 + 12x - 288 = 0$

$s = 12\ \text{km/hr}$

S66. Ans.(c);

Sol.

Let investment of A, B, C and D is a, b, c and d respectively.

	A	B	C	D
Now in firt year →	$a \times 12$	: $b \times 12$	: $c \times 12$	
In 2nd year →	$2a \times 12$	: $\frac{4b}{3} \times 12$	: $\frac{6c}{5} \times 12$	
In 3rd year			$\frac{6c}{5} \times 12$	: $d \times 12$

A : B : C : D

$\Rightarrow (a \times 12 + 2a \times 12) : (b \times 12 + \frac{4}{3}b \times 12) : c \times 12 + 2\frac{6}{5}c \times 12 : d \times 12$

$3a : \frac{7b}{3} : \frac{17}{5}c : d = 12 : 14 : 17 : 8$

$\Rightarrow a : b : c : d = 4 : 6 : 5 : 8$

Difference between B and C initial investment = 1150

Total Investment of A and D together

$= \frac{1150}{1} \times 12 = 13800$

S67. Ans.(b);

Sol.

Distance travel by car P = 1500 + 3000 = 4500 km

Total Time taken = $\frac{4500}{40}$ = 112.5 hour

Time taken by car R from Delhi to City A = $\frac{1000}{60} = \frac{50}{3}$ hours

Time taken from city A to city B = $112.5 - \frac{50}{3}$

$= \frac{287.5}{3}$

Distance from between City A to city B

$= \frac{287.5}{3} \times 60 = 5750$ km

S68. Ans.(a);

Sol.

City A

1000 ↑

Delhi $\xrightarrow[1500]{}$ City E

Distance between city A and city E

$= \sqrt{1000^2 + 1500^2} = \sqrt{1000000 + 2250000}$

$= \sqrt{3250000} = 500\sqrt{13}km$

Approximate time taken by car 'T'

$= \frac{500\sqrt{13}}{75} \approx 24$ hours

S69. Ans.(c);
Sol.

Let speeds of car Q and car S be x and y respectively.

ATQ—

$\Rightarrow \frac{3000}{x} = \frac{2000}{y}$

$\Rightarrow \frac{x}{y} = \frac{3}{2}$

Let speed of car Q and car S be 3a and 2a respectively

Distance between city B and city D = 1500 km

Time taken to cross each other = $\frac{1500}{5a} = \frac{300}{a}$

Time taken by car Q to reach city B from Delhi = $\frac{3000}{3a} = \frac{1000}{a}$

Required% = $\frac{300\times100}{1000}$= 30%

S70. Ans.(d);
Sol.

$\frac{1500\times3}{5} = 900$ km

Time taken by car R to cover this distance = $\frac{900}{60}$ = 15 hour

Let initial speed of car S = x km/hr

So, ATQ

$6x + 15(2x) = 900$

$6x + 30x = 900$

$36x = 900$

x = 25 km/hr

S71. Ans.(e);
Sol.

Distance between Delhi and city A = 1000 km

Distance covered by Car Q before first meeting = 1200 km

Distance covered by Car P before first meeting = 800 km

Speed of car P = 40 km/hr

$\Rightarrow Time\ for\ first\ meeting = \frac{800}{40} = 20hr$

Speed of car Q = $\frac{1200}{20} = 60km/hr$

When car P reaches city 'A' distance covered by car 'Q' = $\frac{200}{40} \times 60 = 300km$

Time taken by car 'Q' to reach Delhi = $\frac{500}{60} = \frac{25}{3}hr$

Distance covered by car 'P' in $\frac{25}{3}hour = \frac{25}{3} \times 40 = \frac{1000}{3}km$

Distance between car 'Q' and car 'P' = $1000 - \frac{1000}{3} = \frac{2000}{3}$

Time to meet = $\frac{\frac{2000}{3}}{60+40} = \frac{20}{3}hour$

$Total\ time = \frac{200}{40} + \frac{25}{3} + \frac{20}{3} = 20\ hours$

S72. Ans.(c);

Sol.

Amount withdrawn from bank which offered simple interest $= 20000 + \frac{20000 \times 10 \times 2}{100} = 24000$

Compound interest accrued from another bank = 2460

$2460 = 24000\left[\left(1 + \frac{R}{100}\right)^2 - 1\right]$

$\Rightarrow r = 5\ \%$

S73. Ans.(b);

Sol.

Amount withdrawn from bank offering S.I.

$= 50000 + \frac{5000 \times 10 \times 2}{100}$

$= 60000$

Amount withdrawn from another bank $= 60000\left(1 + \frac{5}{100}\right)^2$

$= 66150$

New profit $= 66150 - 50000 = 16{,}150$

S74. Ans.(a);

Sol.

Part of work completed by A and E in 3 days

$= \frac{3}{8} + \frac{3}{7} = \frac{45}{56}$

Remaining work $= \frac{11}{56}$

Ratio of efficiency of machine D to 3 men = 1 : 4

Ratio of time taken by machine D to 3 men = 4 : 1

One man alone will complete the work in

$= \frac{8}{4} \times 3 = 6$ days

Similarly

One women alone will complete the work in

$= \frac{8}{8} \times 5 = 5$ days

Remaining work after one day work of a man

$= \frac{11}{56} - \frac{1}{6}$

$= \frac{33 - 28}{168}$

$= \frac{5}{168}$

This work is completed by one women in

$= 5 \times \frac{5}{168}$

$= \frac{25}{168}$ days

$= \frac{25}{7}$ hours

Total required time = 3 days + 1 day + $\frac{25}{7}$ hour

= 4 days $\frac{25}{7}$ hour

S75. Ans.(b);

Sol.

One man can compete work in = 6 days

One child can complete work in

$= \frac{8}{8} \times 3 \times 8 = 24$ days

Required ratio = 6 : 5 : 24

S76. Ans.(d);

Sol.

Three man complete together can complete work in

$= \frac{8}{4} \times 1 = 2$days

Total work = 2 (5 + 4 + 1) = 20

Time taken by least efficient men = 20/1 = 20 days

Required percentage

$= \frac{20 - 8}{8} \times 100 = 150\%$

S77. Ans.(a);

Sol.

Let, total no. of sheets be $84x$,

Then no. of red sheets $= \frac{1}{3} \times 84x = 28x$

no. of blue sheets $= \frac{2}{7} \times 84x = 24x$

no. of white sheets $= \frac{1}{4} \times 84x = 21x$

Now,

$28x + 24x + 21x + 22 = 84x$

or, $11x = 22$

or, $x = 2$

Total no. of sheets = $84x = 168$

There are 12 multiples of 13 and 9 multiples of 17 from 1 to 168.

Also, there is no multiple of 13 *and* 17 from 1 to 168. (because, $13 \times 17 = 221$)

Hence, required probability= $\frac{21}{168} = \frac{1}{8}$

S78. Ans.(b);
Sol. Total no. of sheets = 168

S79. Ans.(e);
Sol. Quantity I:
Let vessel A contains 3x litres milk and x litres water and initial quantity of mixture in vessel A be 4x litres.
Half of the content of vessel A is first poured into vessel B, then content of vessel B is poured into vessel C and finally contents of vessel C is poured into vessel A.
So, vessel A finally contains contents of all the three vessels.
Final ratio of milk and water in vessel A:

$$\frac{\text{Quanity of milk in all three vessels}}{\text{Quanity of water in all three vessels}} = \frac{9}{4}$$

$$\frac{3x + 30}{x + 20} = \frac{9}{4}$$

$\Rightarrow x = 20$
Initial quantity of mixture in vessel A = 4x = 80 litres
Quantity I = Quantity II

S80. Ans.(d);
Sol.
20 men can complete the work in 12 days. So,
1 man can complete the same work in 240 days.
Efficiency of 5 women = Efficiency of 3 men
5W = 3M
Ratio of efficiencies:

$$\frac{M}{W} = \frac{5}{3}$$

Let, a man does 5 units and a woman does 3 units of work per day
& total units of work are 1200 units.
8 days' work of 4 men and 10 women = 8 × (4 × 5 + 10 × 3) = 400 units
Remaining work = 1200 – 400 = 800 units
Quantity I:
Let the additional number of women required be x.
There are 4 men and 10 + x women now.
Per day work of 4 men and 10 + x woman = 4 × 5 + (10 + x) × 3 = 50 + 3x units

$$\text{No. of day required to complete the remaining work} = \frac{800}{50 + 3x}$$

$$\frac{800}{50 + 3x} = 10$$

x = 10

10 additional women are required to complete the remaining work in 10 days.

Quantity II:

Let the additional number of men required be y.

There are 4 + y men and 10 women now.

Per day work of 4 + y men and 10 woman = (4 + y) × 5 + 10 × 3 = 50 + 5y units

No. of day required to complete the remaining work $= \frac{800}{50 + 5y}$

$\frac{800}{50 + 5y} \leq 8$

$y \geq 10$

At least 10 additional men are required to complete the remaining work in either 8 or less than 8 days.

Quantity II ≥ Quantity I

S81. Ans.(e);

Sol. T cells are the white blood cells. The answer to the question can be derived from the second-last sentence of the second paragraph '*But to prevent T-cells from going overboard and attacking the body's own, healthy cells, several control mechanisms (**also called checkpoints**) are built in*'. PD-L1 and CTLA-4 are the specific names of proteins which inhibit the functioning of the T-cells.

Checkpoint is the name, interchangeably, used (as evident from the second-last sentence of the paragraph 2 and the sentences 2 to 7 of the paragraph 4) for the protein and the control mechanism which inhibit the functioning of the T-cells.

Hence, the option (e) is the correct answer.

S82. Ans.(b);

Sol. The answer to the question can be found from the third sentence of the first paragraph '*The treatment, called immunotherapy, takes the brakes off the body's main defense mechanism, a type of white blood cell known as a T-cell*'. T-cell is a **white-blood cell**. So, it is present in the blood.

Immune system is the name given to an abstract system where multiple tangible element of the human-body work together to protect itself.

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

S83. Ans.(c);

Sol. Checkpoint inhibitor inhibits the inhibition applied on the T-cell by the checkpoints. Kindly read the second-last sentence of the first paragraph '*Allison and Honjo showed how different strategies for inhibiting the brakes on the immune system can be used in the treatment of cancer*'.

Also read the third sentence of the fourth paragraph '*The two winners, Allison and Honjo, each **discovered** a different checkpoint on T-cells that can be targeted by cancer cells to prevent or slow down an attack.*'

From above, we find that both the alternatives (i) and (ii) are correct.

Hence, the option (c) is the correct answer.

S84. Ans.(a);

Sol. Checkpoint is the name, interchangeably, used (as evident from the second-last sentence of the paragraph 2 and the sentences 2 to 7 of the paragraph 4) for the protein and the control mechanism which inhibit the functioning of the T-cells.

Each of the 2018 Noble Laureates found a different checkpoint. In total, two checkpoints have been discovered by the 2018 Noble Laureates. The two checkpoints are CTLA-4 and PD-1 which are found on the T-cells. Both are proteins. Kindly read the fourth paragraph from the second sentence to the seventh sentence to ascertain that the two checkpoints are proteins and are present on the T-Cells.

Now, kindly read the last sentence of the second paragraph '***Checkpoint inhibitors*** *are* ***drugs****—based on the work of…'*

From above, we find that the option (a) is the correct answer.

S85. Ans.(e);

Sol. Checkpoint is the name, interchangeably, used (as evident from the second-last sentence of the paragraph 2 and the sentences 2 to 7 of the paragraph 4) for the protein and the control mechanism which inhibit the functioning of the T-cells. T-cells are the main fighters of the immune system which protect the body from biological attacks such as infections. T-cells are the things which attack the cancer cells and attempt to protect the body from cancer. Checkpoint is either the name of the mechanism or different proteins which **inhibit** the functioning of the T-cells.

So, ***checkpoints don't cure cancer.***

Hence, the correct answer is the option (e).

S86. Ans.(e);

Sol. All the given statements are FALSE.

Checkpoint is the name, interchangeably, used (as evident from the second-last sentence of the paragraph 2 and the sentences 2 to 7 of the paragraph 4) for the protein and the control mechanism which inhibit the functioning of the T-cells. Till now, as per the passage, only two checkpoints have been discovered. We cannot say with certainty if all the checkpoints would be proteins. So, the statement (i) is FALSE.

For the statement (ii), kindly read the last third statement of the fourth paragraph '*T-cells have another protein on their surface called PD-1—identified by Honjo—which attaches to a matching protein called PD-L1 on the surface of other cells.*' It's the PD-1 proteins which are found on the surface of the T-cells, **not the PD-L1 cells**. So, the statement (ii) is FALSE.

For the statement (iii), kindly read the second-last sentence of the second paragraph '*But to prevent T-cells from going overboard and attacking the body's own, healthy cells, several control mechanisms (also called checkpoints) are built in.*' So, it can't be said if checkpoints are bane for the human body in every situation. Hence, the statement (iii) is FALSE.

For the statement (iv), kindly read the last sentence of the second paragraph '*Checkpoint inhibitors are drugs—based on the work of Allison and Honjo—that block the body's control mechanisms, so that T-cells are more active and can fight cancer cells more freely.* '

Now let's discuss the statement (v), nowhere in the passage is it mention if the 2018 Nobel Laureates in Medicine created any drug which inhibit the inhibition imposed by the checkpoints on the T-cells. According to the passage, each of the laureates discovered different checkpoints found on the T-cells and **floated the idea** of creating ***checkpoint-inhibition***.

Kindly read a clause present in the second sentence of the first paragraph '*, for their discoveries that lead to a new type of cancer treatment that targets people's immune systems.*' The noble laureates **discovered something *that lead to a new type of cancer treatment***. The noble laureates didn't create any new cancer treatment. A new cancer treatment called 'immunotherapy' ***is based on the discovery of the noble***

laureates. The last sentence of the second paragraph '*Checkpoint inhibitors are drugs—**based on the work of Allison and Honjo**—that block the body's control mechanisms, so that T-cells are more active and can fight cancer cells more freely'* favours the notion.
So, the statement (v) is also FALSE.
From above, all the given statements are FALSE.
Hence, the option (e) is the correct answer.

S87. Ans.(c);
Sol. Seminal [adjective] means '*original, originative, germinal*';
Arcane [adjective] means '*understood by few; mysterious or secret*';
Biased [adjective] means '*unfairly prejudiced for or against someone or something*';
Germinal [adjective] means '*providing material for future development*'; '*in the earliest stage of development*';
Cynical [adjective] means '*believing that people are motivated purely by self-interest; distrustful of human sincerity or integrity*';
Dolorous [adjective] means '*feeling or expressing great sorrow or distress*';
From above, we understand that the correct synonym of Seminal is '***germinal'***.
Hence, the option (c) is the correct answer.

S88. Ans.(d);
Sol. Destroy [verb] means '*end the existence of (something) by damaging or attacking it*';
Expedite [verb] means '*make (an action or process) happen sooner or be accomplished more quickly*';
Squander [verb] means '*waste (something, especially money or time) in a reckless and foolish manner*';
Venerate [verb] means '*regard with great respect*';
Mend [verb] means '*repair (something that is broken or damaged)*';
Vacillate [verb] means '*waver between different opinions or actions*';
From above, it could be found that the word 'mend' has a meaning which is OPPOSITE to the meaning of the given word 'destroy'.
Hence, the option (d) is the correct answer.

S89. Ans.(a);
Sol. The answer to the question can be derived from the second sentence of the second paragraph. '*The significance of this issue has been highlighted by the recent discovery of a massive underground tunnel running underneath the United States-Mexico border.*'
The passage didn't mention anything about the alternative (ii). So, it is wrong.
Though the last sentence of the first paragraph did mention that '*series of cross-border attacks in 2015 being a reason for the border regions' security becoming a priority*', but the tone of the second sentence of the second paragraph, and the first four sentences of the third paragraph suggest that according to the author, the alternative (i) primarily indicates the enhanced challenges in the field of border security.
Hence, the correct answer is the option (a).

S90. Ans.(c);
Sol. The answer to the question can be derived from the fourth sentence of the fourth paragraph. '*This dangerous situation may well be repeated along the India-Pakistan border…*' The earlier sentences mention the technological supremacy of the drug cartels and criminal syndicates in Mexico.
Hence, the option (c) is the correct answer.

S91. Ans.(a);

Sol. The answer to the question can be derived from the third sentence of the fourth paragraph. '*The use of drones by drug cartels on US-Mexico border has raised the eyebrows of law enforcement agencies as there has been a surprising surge in the number of drone incidents from 8 in 2013 to 1752 in 2016.*' The option (i) is a fact which is mentioned in reference to the Mexico, not in reference to the India and/or Pakistan. Hence, the correct answer is the option (a).

S92. Ans.(b);

Sol. What is the theme of the passage? The theme of the passage is approximately "Enhanced challenges for securing the Indian borders and the ways to tackle it". The passage basically talks about the challenges which India may face while securing its border in the modern era. This is confirmed by the tone of the fourth sentence of the fourth paragraph '*This dangerous situation may well be repeated along the India-Pakistan border as drug cartels and terrorist organizations across the border have become emboldened in recent years* '. The focus has been given to securing the borders of India. The primary example used to highlight the seriousness of the theme of the passage, which is mentioned in the second sentence of the second paragraph, is the *discovery of a sophisticated underground tunnel equipped with solar panel system and a rail system along the US-Mexico border.*

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

S93. Ans.(b);

Sol. The theme of the passage approximately is '*Enhanced challenges for securing the Indian borders and the ways to tackle it*'.

The answer to the question can be derived from the last sentence of the fifth paragraph and the first sentence of the sixth paragraph.

The last sentence of the fifth paragraph is '*Given the sophisticated nature of the threat, the only way to effectively secure India's border with Pakistan from drug trafficking and weapons smuggling is to conceptualize and put in place an omnidirectional border security with a mix of air and underground detection system.*'

The first sentence of the last paragraph is '*This issue also underlines the need to have a sound national border control strategy, with the setting-up of quantified benchmarks, and performance and effectiveness metrics.*'

From above, both the options (i) and (ii) can be derived. So, the author of the passage offered the options (i) and (ii), but not (iii).

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

S94. Ans.(a);

Sol. Kindly read the last sentence of the third paragraph, '*According to Mexican authorities, drug-trafficking gangs pay around $100 million per month in bribes to police officers across the country.*'

'The country' is a **common singular** noun. What is referred by 'the country'? What did the 'Mexican authorities' refer to when they said, 'the country', knowing the country is a singular noun, and an article 'the' is used prior to the 'country'? It only makes sense, if 'the country' is referring to 'Mexico'.

So, the option (i), which says that the drug-trafficking gangs pay around $100 million per month in bribes to police officers of Mexico **and the US,** is wrong because the specific sentence in the passage implies that the bribes were offered to the police officers of Mexico.

Hence, the correct answer is the option (a).

S95. Ans.(d);
Sol. Metastasize [verb] means '*spread to other sites in the body by metastasis*'; grow; increase; escalate;
Flay [verb] means '*strip the skin off (a corpse or carcass)*';
Zap [verb] means '*to get rid of or kill something or someone especially intentionally*';
Posit [verb] means '*[with object] put forward as fact or as a basis for argument*';
Amble [verb] means '*[no object, with adverbial of direction] walk or move at a slow and relaxed pace*';
Proliferate [verb] means '*[no object] increase rapidly in number; multiply*';
From above, the word 'proliferate' has a meaning closer to the meaning of 'metastasize'.
Hence, the option (d) is the correct answer.
S96. Ans.(b);
Sol. The errors lie in the parts (I) and (III) of the sentence. It is to be noted the sentence having a present perfect tense is made using the auxiliary verb 'have' plus the ***past participle*** of the main verb. Therefore, "grow" should be replaced by "grown". Moreover, in the part (III) "Economic" and "economical" are two adjectives that are frequently used interchangeably. They are clearly related but they have, strictly speaking, quite distinct meanings. "Economy" means Relating to economics or the economy while "economy" means Giving good value or return in relation to the resources used or money spent; sparing in the use of resources or money. So, government policies to do with finance would be economic but fuel-efficient cars would be described as more economical. Therefore, 'economical' should be replaced by 'economic'. Hence, the option (b) is the most suitable answer choice.
S97. Ans.(c);
Sol. The errors lie in the parts (I) and (II) of the sentence. It is to be noted that to make the first part of the sentence grammatically correct, replace "green tall" by "tall green", since while describing a noun with adjective of size and adjective of colour, then the chronological order of the adjectives should be size and then colour. In addition to it, if more adjectives are used to describe the noun, then they should follow the following order: adjective of size, adjective of general description, adjective of age, adjective of shape, adjective of colour, adjective of general origin, adjective of material and lastly adjective of purpose.
Moreover, the part (II) contains a prepositional error. To make it correct replace "over" by "across" as across means from one side to the other of (a place, area, etc.). Hence, the option (c) is the most viable answer choice.

S98. Ans.(a);
Sol. The error lies in the part (II) of the given sentence. It is to be noted that the subject associated with the verb "are' is 'Participation' rather than 'women'. Since the subject 'participation' is a singular noun, the verb associated to it should also be singular. Therefore, 'are' should be replaced by 'is'. Hence, the option (a) is the most suitable answer choice.
S99. Ans.(e);
Sol. All the given parts of the sentence are grammatically correct and do not require any replacement; hence, the option (e) becomes the most suitable answer choice.

S100. Ans.(b);
Sol. Parts (I) and (III) of the sentence contain error. It is to be noted if two subjects are joined using the conjunction 'and', then the plural from of verb is required. Also in part (III) the article "the" is required before the gerund 'broadcasting'. However, the given part (II) of the sentence is grammatically and correct and contextually meaningful. Hence, option (b) is the most viable answer choice.

S101. Ans.(b);
Sol. The options (a), (c) and (d) seem to imply that France, a nation, is in a sealed envelope. This is meaningless. So, the options (a), (c) and (d) are incorrect. Only the option (b) correctly forms a sentence which is grammatically correct and contextually meaningful without any error.
Hence, the option (b) is the correct answer.
'*The Supreme Court on Wednesday asked the Centre to submit details of the decision-making process in the Rafale deal with France in a sealed envelope by October 29*.'

S102. Ans.(c);
Sol. The statement '*Initially, Dr. Shamas was joined by* ***two more doctors***'. Dr. Imran Hafeez and Dr. Muzaffar Zargar should be those two doctors. And these doctors would have started offering free online consultation to doctors in far-off districts.
Among the given options, only option (c) successfully forms a grammatically correct and contextually meaningful sentence.
Hence, the correct answer is the option (c).

S103. Ans.(c);
Sol. Among the given options, only option (c) successfully forms a grammatically correct and contextually meaningful sentence. Hence, the correct answer is the option (c).

S104. Ans.(b);
Sol. Among the given options, sentences (a) and (c) are grammatically and contextually incorrect. Sentence (d) is contextually different and structurally incorrect. It is not inferring the same meaning as per the demand of the question. Hence only option (b) forms the correct sentence which follows the sentences given in the question both grammatically and contextually.

S105. Ans.(a);
Sol. The usage of 'because' and 'while' at the starting of the sentences (c) and (d) respectively is incorrect as they imply contextually incorrect meaning. The option (b) is contextually meaningless.
The option (a) is both grammatically correct and contextually meaningful.
Hence, the option (a) is the correct answer.

S106. Ans.(d);
Sol. 'Elusive' means difficult to find, catch, or achieve. The word 'Elusive' is used appropriately in the sentence (II) only. Therefore, the option (d) is the most viable answer choice.

S107. Ans.(e);
Sol. 'Fathom' means understand (a difficult problem or an enigmatic person) after much thought. The word 'Fathom' is used appropriately in all the given sentences. Therefore, the option (e) is the most viable answer choice.

S108. Ans.(a);
Sol. 'Subjugate' means bring under domination or control, especially by conquest; or make someone or something subordinate to. Among the given sentences, only sentence (II) has used the given word with its precise meaning. Both sentences (I) and (III) fail to find coherence using the word 'subjugate'. Hence, the option (a) is the most suitable answer choice.

S109. Ans.(c);
Sol. 'Imbecile' as a noun means a stupid person; or as an adjective it means stupid; idiotic. Therefore, it provides a comprehensive sense to the sentences (I) and (II). However, it is incorrectly used in the sentence (III). Hence, the option (c) is the most suitable choice.
S110. Ans.(b);
Sol. 'Predilection' is a noun which means a preference or special liking for something; a bias in favour of something. Among the given sentences, only sentence (I) has used the given word with its precise meaning. Both the sentences (II) and (III) fail to find coherence using the word 'predilection'. Hence, the option (b) is the most suitable answer choice.

S111. Ans.(b);
Sol. The sentence (F) doesn't gel well with any of the sentences. The sentence (F) seems to be an opinion of a person about the righteousness of the events happening while the sentences (A) to (E) provides facts about what actions have been taken and possible effects of the actions taken.
Hence, the sentence (F) is the **incoherent sentence.**
The correct sequence of the coherent paragraph is 'DCAEB'.
The sentence (D) introduces the theme of the passage which is 'the National Security Strategy released last year by President Donald Trump's administration auguring a major change in the China-US relations'. So, the sentence (D) should be the FIRST sentence of the coherent paragraph.
The sentence (C) informs a reader about the idiosyncrasy of the National Security Strategy and about how does the present strategy is different from the strategy of the predecessors of the US.
The sentence (A) introduces a new sub-topic of the coherent paragraph which is '*the tirade which Mike Pence launched against China*' while the sentence (E) elaborates the new sub-theme. So, the sentence (E) must immediately follow the sentence (A) to give us a coherent sub-sequence 'AE'. This sub-sequence 'AE' complements the information provided in the sentence (C). So, the sub-sequence 'AE' must follow the sentence (C), and the sentence (C) must be the SECOND sentence of the coherent paragraph.
The sentence (B) provides a possible conclusion to the paragraph which is about the possible effect of the new security strategy released by Trump. So, the sentence (B) should be the LAST sentence of the coherent paragraph, making the sub-sequence 'AE' to immediately follow the second sentence 'C' of the coherent paragraph.
Hence, the final sequence is 'DCAEB'.
Hence, the option (b) is the correct answer.

S112. Ans.(d);
Sol. The sub-sequence which would occur in the final coherent sequence is 'C-A'.
The correct sequence of the coherent paragraph is 'DCAEB'.
The sentence (D) introduces the theme of the passage which is 'the National Security Strategy released last year by President Donald Trump's administration auguring a major change in the China-US relations'. So, the sentence (D) should be the FIRST sentence of the coherent paragraph.
The sentence (C) informs a reader about the idiosyncrasy of the National Security Strategy and about how does the present strategy is different from the strategy of the predecessors of the US.
The sentence (A) introduces a new sub-topic of the coherent paragraph which is '*the tirade which Mike Pence launched against China*' while the sentence (E) elaborates the new sub-theme. So, the sentence (E) must immediately follow the sentence (A) to give us a coherent sub-sequence 'AE'. This sub-sequence 'AE' complements the information provided in the sentence (C). So, the sub-sequence 'AE' must follow the sentence (C), and the sentence (C) must be the SECOND sentence of the coherent paragraph.

The sentence (B) provides a possible conclusion to the paragraph which is about the possible effect of the new security strategy released by Trump. So, the sentence (B) should be the LAST sentence of the coherent paragraph, making the sub-sequence 'AE' to immediately follow the second sentence 'C' of the coherent paragraph.
Hence, the final sequence is 'DCAEB'.
Hence, the option (d) is the correct answer.

S113. Ans.(c);
Sol. The correct sequence of the coherent paragraph is 'DCAEB'.
The sentence (D) introduces the theme of the passage which is 'the National Security Strategy released last year by President Donald Trump's administration auguring a major change in the China-US relations'. So, the sentence (D) should be the FIRST sentence of the coherent paragraph.
The sentence (C) informs a reader about the idiosyncrasy of the National Security Strategy and about how does the present strategy is different from the strategy of the predecessors of the US.
The sentence (A) introduces a new sub-topic of the coherent paragraph which is '*the tirade which Mike Pence launched against China*' while the sentence (E) elaborates the new sub-theme. So, the sentence (E) must immediately follow the sentence (A) to give us a coherent sub-sequence 'AE'. This sub-sequence 'AE' complements the information provided in the sentence (C). So, the sub-sequence 'AE' must follow the sentence (C), and the sentence (C) must be the SECOND sentence of the coherent paragraph.
The sentence (B) provides a possible conclusion to the paragraph which is about the possible effect of the new security strategy released by Trump. So, the sentence (B) should be the LAST sentence of the coherent paragraph, making the sub-sequence 'AE' to immediately follow the second sentence 'C' of the coherent paragraph.
Hence, the final sequence is 'DCAEB'.
Hence, the option (c) is the correct answer.

S114. Ans.(a);
Sol. The FIFTH sentence of the coherent paragraph is the sentence (B).
The correct sequence of the coherent paragraph is 'DCAEB'.
The sentence (D) introduces the theme of the passage which is 'the National Security Strategy released last year by President Donald Trump's administration auguring a major change in the China-US relations'. So, the sentence (D) should be the FIRST sentence of the coherent paragraph.
The sentence (C) informs a reader about the idiosyncrasy of the National Security Strategy and about how does the present strategy is different from the strategy of the predecessors of the US.
The sentence (A) introduces a new sub-topic of the coherent paragraph which is '*the tirade which Mike Pence launched against China*' while the sentence (E) elaborates the new sub-theme. So, the sentence (E) must immediately follow the sentence (A) to give us a coherent sub-sequence 'AE'. This sub-sequence 'AE' complements the information provided in the sentence (C). So, the sub-sequence 'AE' must follow the sentence (C), and the sentence (C) must be the SECOND sentence of the coherent paragraph.
The sentence (B) provides a possible conclusion to the paragraph which is about the possible effect of the new security strategy released by Trump. So, the sentence (B) should be the LAST sentence of the coherent paragraph, making the sub-sequence 'AE' to immediately follow the second sentence 'C' of the coherent paragraph.
Hence, the final sequence is 'DCAEB'.
Hence, the option (a) is the correct answer.

S115. Ans.(e);
Sol. The first sentence of the coherent paragraph is the sentence (D).
The correct sequence of the coherent paragraph is 'DCAEB'.
The sentence (D) introduces the theme of the passage which is 'the National Security Strategy released last year by President Donald Trump's administration auguring a major change in the China-US relations'. So, the sentence (D) should be the FIRST sentence of the coherent paragraph.
The sentence (C) informs a reader about the idiosyncrasy of the National Security Strategy and about how does the present strategy is different from the strategy of the predecessors of the US.
The sentence (A) introduces a new sub-topic of the coherent paragraph which is '*the tirade which Mike Pence launched against China*' while the sentence (E) elaborates the new sub-theme. So, the sentence (E) must immediately follow the sentence (A) to give us a coherent sub-sequence 'AE'. This sub-sequence 'AE' complements the information provided in the sentence (C). So, the sub-sequence 'AE' must follow the sentence (C), and the sentence (C) must be the SECOND sentence of the coherent paragraph.
The sentence (B) provides a possible conclusion to the paragraph which is about the possible effect of the new security strategy released by Trump. So, the sentence (B) should be the LAST sentence of the coherent paragraph, making the sub-sequence 'AE' to immediately follow the second sentence 'C' of the coherent paragraph.
Hence, the final sequence is 'DCAEB'.
Hence, the option (e) is the correct answer.

S116. Ans.(b);
Sol. Russia has launched first Arctic train service running from St. Petersburg station headed to Norway.

S117. Ans.(b);
Sol. Budgetary deficit is the difference between all receipts and expenses in both revenue and capital account of the government. If revenue expenses of the government exceed revenue receipts, it results in revenue account deficit. Similarly, if the capital disbursements of the government exceed capital receipts, it leads to capital account deficit. Budgetary deficit is usually expressed as a percentage of GDP.

S118. Ans.(a);
Sol. Mutual funds in India are regulated by the Securities and Exchange Board of India (SEBI).

S119. Ans.(d);
Sol. Confederation of Indian Industry (CII) has launched a Fiscal Performance Index (FPI) to assess state and central budgets. The Index incorporates qualitative assessments of revenue expenditure, capital expenditure, revenues, fiscal prudence and the level of public debt arrive at a more holistic picture of fiscal performance than the fiscal deficit to GDP ratio according to the CII.

S120. Ans.(b);
Sol. L&T Financial Services' (LTFS) 'Digital Sakhi', an educational programme aimed at digital financial inclusion of rural women, was launched in 20 villages of Villupuram district in Tamil Nadu.

S121. Ans.(c);
Sol. Bajaj Finance overtook India's largest bank by assets State Bank of India in market value, becoming the fifth most valued in the country's BFSI (Banking, Financial Services and Insurance) basket.

S122. Ans.(d);
Sol. Kuldeep Singh Dhatwalia, an Indian Information Service (IIS) officer, was appointed the principal spokesperson of the government

S123. Ans.(c);
Sol. Jammu and Kashmir has been accorded the 'best learning and sharing space' award during an event held here to mark one year of the Ayushman Bharat scheme.

S124. Ans.(b);
Sol. A senior 1985-batch IPS officer of Gujarat cadre Anup Kumar Singh has been appointed as Director-General of the National Security Guard (NSG).

S125. Ans.(c);
Sol. Girish Chandra Murmu and Radha Krishna Mathur were sworn in as the first Lieutenant Governors of Jammu and Kashmir and Ladakh Union Territories respectively.

S126. Ans.(a);
Sol. Bianca Andreescu, a 19-year-old rising star from Canada, defeated Williams 6-3, 7-5 to win the 2019 U.S. Open women's singles tournament, becoming the first teenager to capture a major since Maria Sharapova won here in 2006.

S127. Ans.(c);
Sol. The term bad debts usually refer to accounts receivable (or trade accounts receivable) that will not be collected.

S128. Ans.(c);
Sol. Joaquin Phoenix's "Joker" was awarded the Golden Lion for Best Film at the 76th Annual Venice Film Festival.

S129. Ans.(b);
Sol. A basis point is the smallest measure used in quoting yields on fixed income products. Basis points also pertain to interest rates. One basis point is equal to one one-hundredth of one percentage point (0.01%). Therefore, 100 basis points would be equivalent to 1%.

S130. Ans.(a);
Sol. Financial Literacy Week 2019 was observed from June 3-7 on the theme of “Farmers” and how they benefit by being a part of the formal banking system. Financial Literacy Week is an initiative of RBI to promote awareness of key topics every year through a focused campaign. Growth in agriculture is necessary for the overall economic growth and finance is an essential enabler for the same.

S131. Ans.(d);
Sol. The Banking Ombudsman Scheme is an expeditious and inexpensive forum for bank customers for resolution of complaints relating to certain services rendered by banks.

S132. Ans.(b);
Sol. The first wholly Indian Bank was set-up in 1894.

S133. Ans.(d);
Sol. Prime Minister Narendra Modi and visiting Mongolian President Khaltmaagiin Battulga have jointly unveiled a golden statue of Lord Buddha at Gandan Tegchenling Monastery in Ulaanbaatar through video-conferencing in New Delhi.

S134. Ans.(d);
Sol. The International Fund for Agricultural Development (IFAD) is an international financial institution and a specialized agency of the United Nations dedicated to eradicating poverty and hunger in rural areas of developing countries.

S135. Ans.(b);
Sol. Megan Rapinoe won the women's player award - ahead of fellow American Alex Morgan and England's Lucy Bronze - at the Best Fifa Football Awards in Milan.

S136. Ans.(c);
Sol. The United States became the world's biggest oil producer in 2018, and over the next five years, the nation will take aim at becoming the top oil exporter, according to the International Energy Agency.

S137. Ans.(d);
Sol. National Bank for Agriculture and Rural Development is an apex development financial institution in India. It is an institution fully owned by Government of India, headquartered at Mumbai with regional offices all over India.

S138. Ans.(e);
Sol. The government will set up a unified authority for regulating all financial services in IFSC, which is situated at GIFT City in Gujarat. The move is expected to provide a further push to the International Financial Services Centre (IFSC) and lead to better regulation and supervision of the financial entities.

S139. Ans.(e);
Sol. The RTGS system is primarily meant for large value transactions. The minimum amount to be remitted through RTGS is Rs.2,00,000/- with no upper or maximum ceiling.

S140. Ans.(c);
Sol. Bancassurance is a relationship between a bank and an insurance company that is aimed at offering insurance products or insurance benefits to the bank's customers. In this partnership, bank staff and tellers become the point of sale and point of contact for the customer.

S141. Ans.(c);
Sol. The Bhashan Char is an uninhabited island around 30 kilometer east of Hatiya island in the South East Bangladesh.

S142. Ans.(e);
Sol. KYC guidelines followed by the Banks have been framed on the recommendations of the RBI.

S143. Ans.(d);
Sol. Public sector Indian Bank has inked a pact with private sector insurer Aditya Birla Sun Life to offer life insurance products to the bank's customers.

S144. Ans.(a);
Sol. In the backdrop of simmering tensions between the two, India and Pakistan participated in a major exercise under the Shanghai Cooperation Organisation in Russia.
The exercise called 'Tsentr (Centre) 2019' was tentatively scheduled to be held from September 10 to 21 at Orenburg.

S145. Ans.(e);
Sol. 'One Nation One Ration Card' scheme, which will allow portability of food security benefits, will be available across the country from July 1, 2020. This means poor migrant workers will be able to buy subsidised rice and wheat from any ration shop in the country, so long as their ration cards are linked to Aadhaar.

S146. Ans.(e);
Sol. Germany Capital- Berlin, Currency- Euro. Chancellor- Angela Merkel. President- Frank-Walter Steinmeier

S147. Ans.(c);
Sol. Hyderabad is located on the Musi River in the heart of the Telangana Plateau, a major upland region of the Deccan (peninsular India).

S148. Ans.(e);
Sol. Maithon Dam is built on the river of Barakar located at Maithon and is a big dam in tribal state Jharkhand. Maithon Dam is one of the most popular dams in Jharkhand and one of the most successful multipurpose projects in India.

S149. Ans.(c);
Sol. Three playwrights — Annie Zaidi, Swetanshu Bora and Sneh Sapru — have been shortlisted for their works submitted for The Hindu Playwright Award 2018. The award, instituted in 2008, carries a prize of Rs.2 lakh for the best original, unpublished and unperformed play script in English. The three plays, Untitled 1 (Annie Zaidi), Guilt (Swetanshu Bora) and Hello Farmaish (Sneh Sapru), were chosen by a panel of three independent judges from a list of 68 plays submitted.

S150. Ans.(d);
Sol. Former Gujarat Chief Minister Dilip Parikh passed away. He was 82 and took his last breath at a private hospital in Ahmedabad following a prolonged illness.

S151. Ans.(d);
Sol. NTPC Ramagundam, a part of National Thermal Power Corporation, is a 2600 MW Power station situated at Ramagundam in Peddapalli district in the Indian state of Telangana, India.

S152. Ans.(b);
Sol. The United Nations' (UN) World Development Information Day is annually held on October 24 to draw attention of worldwide public opinion to development problems and the need to strengthen international cooperation to solve them.

S153. Ans.(a);
Sol. Suggi Kunitha is a festival dance in Karnataka. It is performed by Halakki Vokkaligas, a community of Karnataka.

S154. Ans.(c);
Sol. Kalidas Festival is an important festival of Maharashtra, usually held in Ramtek, Nagpur. It is celebrated in the honour of great Indian poet Kalidas.

S155. Ans.(b);
Sol. The Anshi National Park is located at a distance of 60 km from Karwar in Uttara Kannada district, Karnataka.

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