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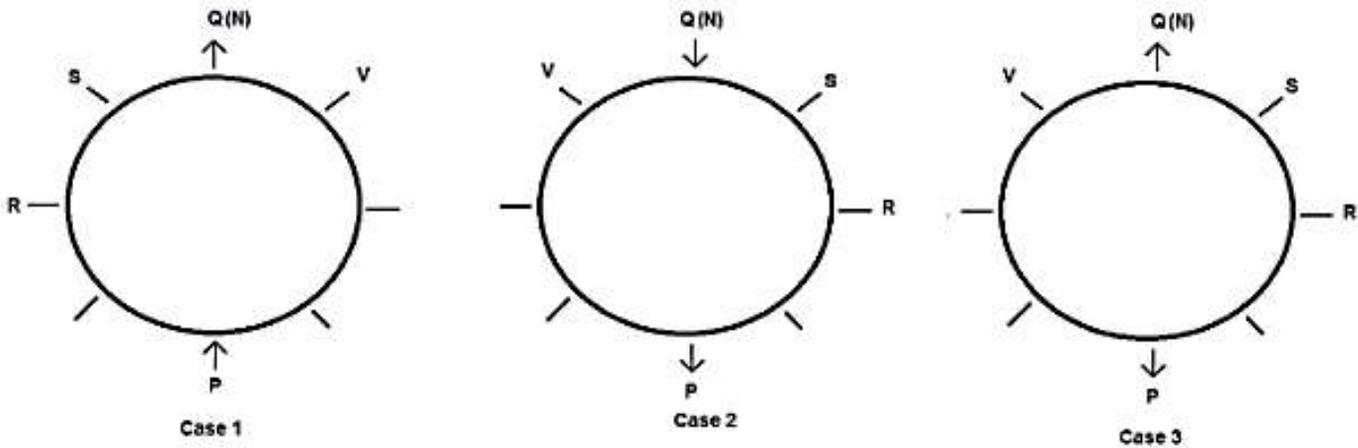
Reasoning Ability - Solutions

S1. Ans.(a)

Sol. Step 1. From the information given in the question,

S sits third to the left of P. R sits second to the left of P. There can be two possible cases i.e. case 1 when P is facing towards the center and case 2 when P is facing outside the center. Q who plays for N is an immediate neighbour of both S and V. It means Q and P are sitting opposite to each other. P and Q are not facing each other. It means there will three possible cases.

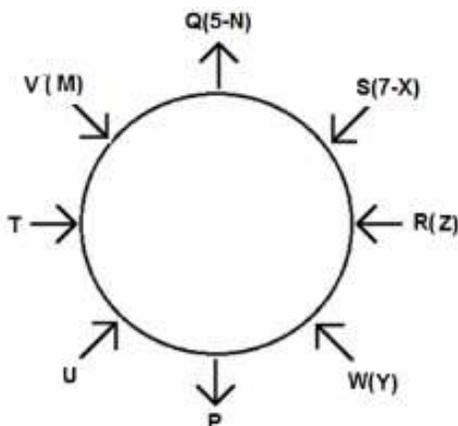
So we have,



Step 2.

The one who sits to the immediate right of Q plays for X. V who plays for M is sitting third to the right of P. So our case 1 and case 2 will be eliminated and we will proceed with case 3. in which Q and P are facing opposite to the center. Only two such persons are there who do not have anyone sitting in front of them. It means all the other persons except P and Q will be facing towards the center. W who plays for Y sits third to the right of T. It means T sits to the immediate right of V. The person who plays for Z is sitting opposite T. It means R plays for Z and U is sitting between T and P. The one who plays for N played 5 matches. S played two more matches than his immediate right neighbour.

So we have,



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IBPS RRB PRIME

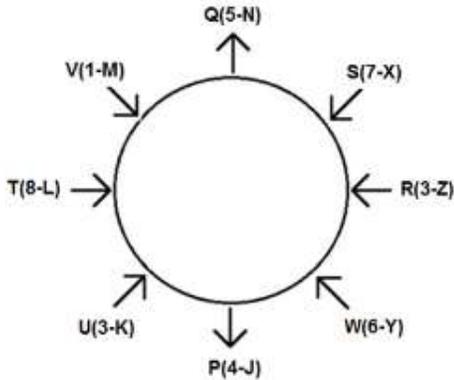
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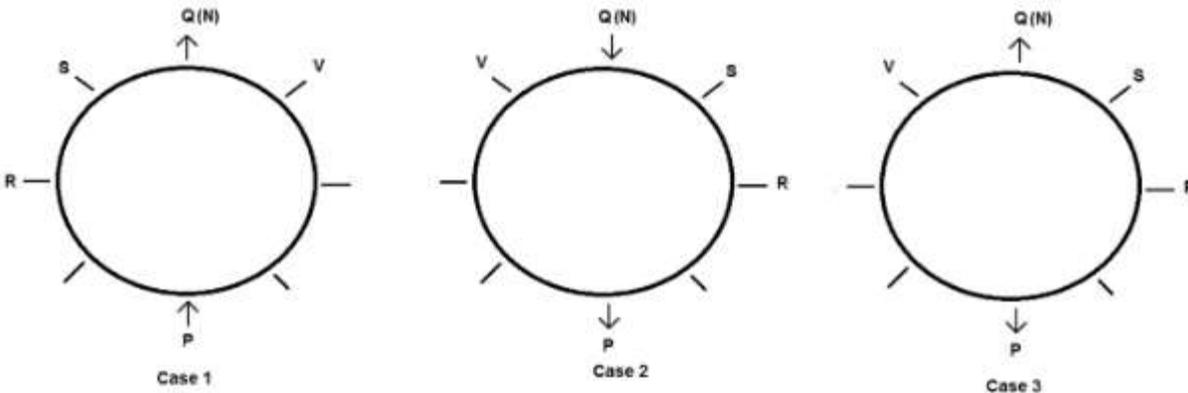
Step 3.

Neither P nor W is an immediate neighbour of the person who plays for L. So, clearly T plays for L. U does not play for J. Means P plays for J and U plays for K. The difference between the number of matches played by Q and the one who plays for J is two less than the number of person sitting between them. The one who played for K played 3 matches. The sum of the total number of matches played by the immediate neighbours of P is equal to 9. It means W played 6 matches. U and R are the only two persons who played the same number of matches. It means R played 3 matches and P played four matches. The number of matches played by T is twice the sum of the number of matches played by his immediate neighbors. No one played more than 8 matches. It means V played 1 match while T played eight matches. So we have our final solution as,



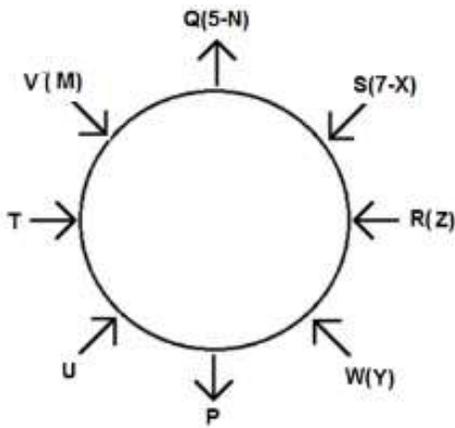
S2. Ans.(c)

Sol. Step 1. From the information given in the question, S sits third to the left of P. R sits second to the left of P. There can be two possible cases i.e. case 1 when P is facing towards the center and case 2 when P is facing outside the center. Q who plays for N is an immediate neighbour of both S and V. It means Q and P are sitting opposite to each other. P and Q are not facing each other. It means there will three possible cases. So we have,



Step 2.

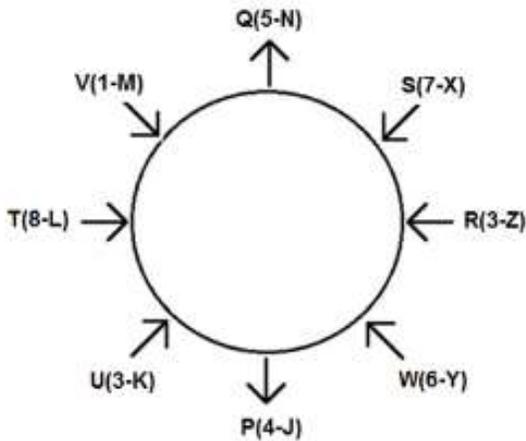
The one who sits to the immediate right of Q plays for X. V who plays for M is sitting third to the right of P. So our case 1 and case 2 will be eliminated and we will proceed with case 3. in which Q and P are facing opposite to the center. Only two such persons are there who do not have anyone sitting in front of them. It means all the other persons except P and Q will be facing towards the center. W who plays for Y sits third to the right of T. It means T sits to the immediate right of V. The person who plays for Z is sitting opposite T. It means R plays for Z and U is sitting between T and P. The one who plays for N played 5 matches. S played two more matches than his immediate right neighbour. So we have,



Step 3.

Neither P nor W is an immediate neighbour of the person who plays for L. So, clearly T plays for L. U does not play for J. Means P plays for J and U plays for K. The difference between the number of matches played by Q and the one who plays for J is two less than the number of person sitting between them. The one who played for K played 3 matches. The sum of the total number of matches played by the immediate neighbours of P is equal to 9. It means W played 6 matches. U and R are the only two persons who played the same number of matches. It means R played 3 matches and P played four matches. The number of matches played by T is twice the sum of the number of matches played by his immediate neighbors. No one played more than 8 matches. It means V played 1 match while T played eight matches.

So we have our final solution as,



S3. Ans.(e)

Sol. Step 1. From the information given in the question, S sits third to the left of P. R sits second to the left of P. There can be two possible cases i.e. case 1 when P is facing towards the center and case 2 when P is facing outside the center. Q who plays for N is an immediate neighbour of both S and V. It means Q and P are sitting opposite to each other. P and Q are not facing each other. It means there will three possible cases.

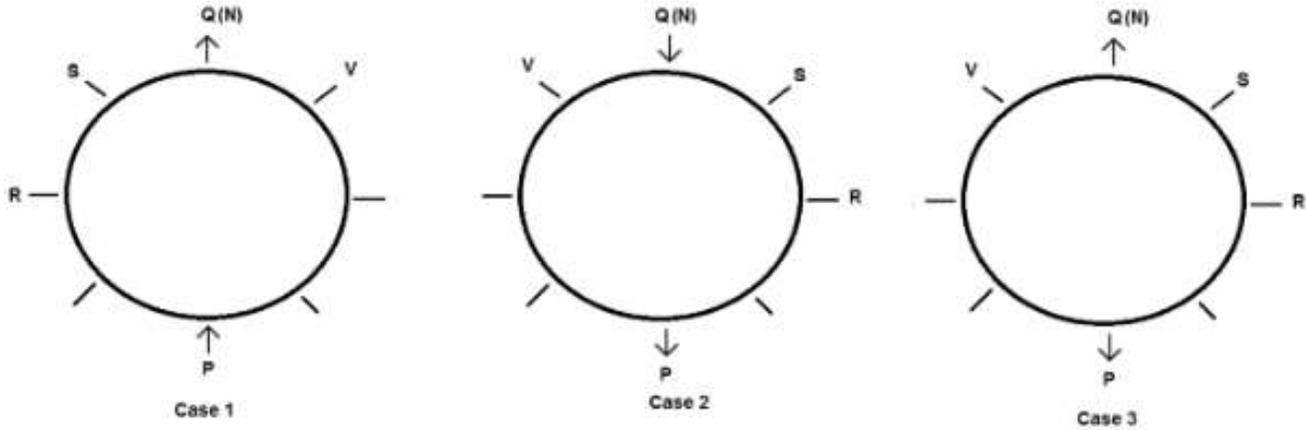
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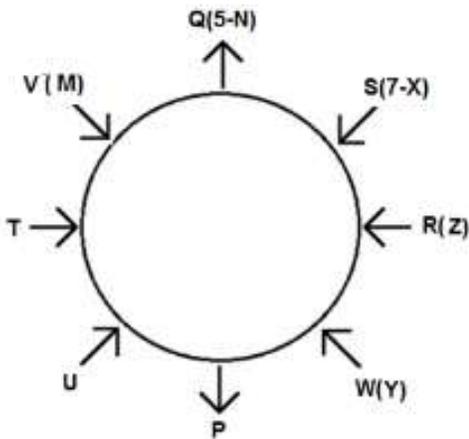
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Step 2.

The one who sits to the immediate right of Q plays for X. V who plays for M is sitting third to the right of P. So our case 1 and case 2 will be eliminated and we will proceed with case 3. in which Q and P are facing opposite to the center. Only two such persons are there who do not have anyone sitting in front of them. It means all the other persons except P and Q will be facing towards the center. W who plays for Y sits third to the right of T. It means T sits to the immediate right of V. The person who plays for Z is sitting opposite T. It means R plays for Z and U is sitting between T and P. The one who plays for N played 5 matches. S played two more matches than his immediate right neighbour.

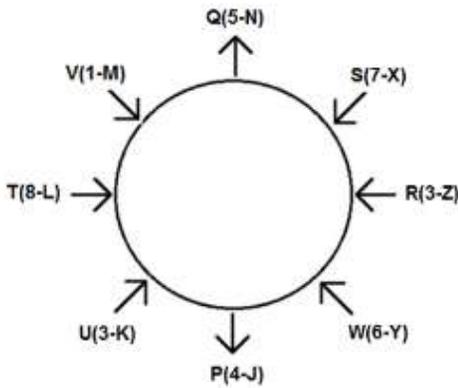
So we have,



Step 3.

Neither P nor W is an immediate neighbour of the person who plays for L. So, clearly T plays for L. U does not play for J. Means P plays for J and U plays for K. The difference between the number of matches played by Q and the one who plays for J is two less than the number of person sitting between them. The one who played for K played 3 matches. The sum of the total number of matches played by the immediate neighbours of P is equal to 9. It means W played 6 matches. U and R are the only two persons who played the same number of matches. It means R played 3 matches and P played four matches. The number of matches played by T is twice the sum of the number of matches played by his immediate neighbors. No one played more than 8 matches. It means V played 1 match while T played eight matches.

So we have our final solution as,

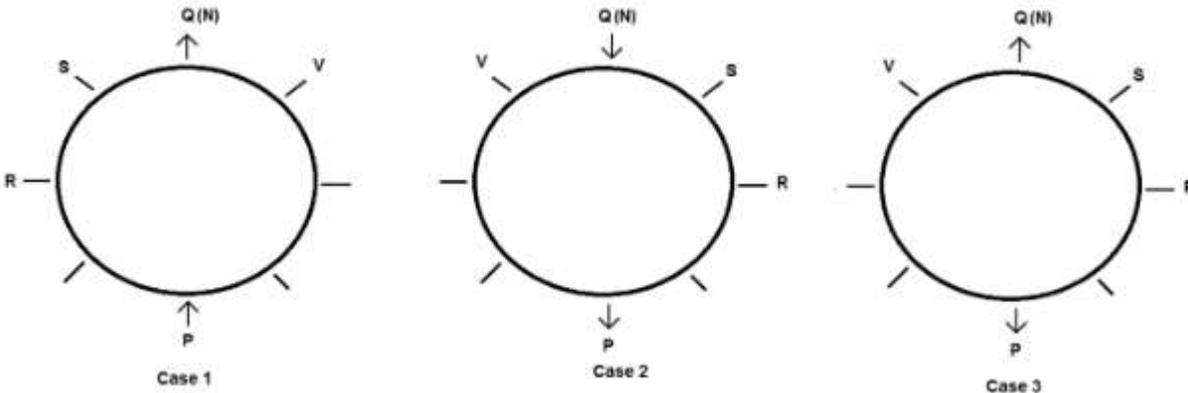


S4. Ans.(d)

Sol. Step 1. From the information given in the question,

S sits third to the left of P. R sits second to the left of P. There can be two possible cases i.e. case 1 when P is facing towards the center and case 2 when P is facing outside the center. Q who plays for N is an immediate neighbour of both S and V. It means Q and P are sitting opposite to each other. P and Q are not facing each other. It means there will be three possible cases.

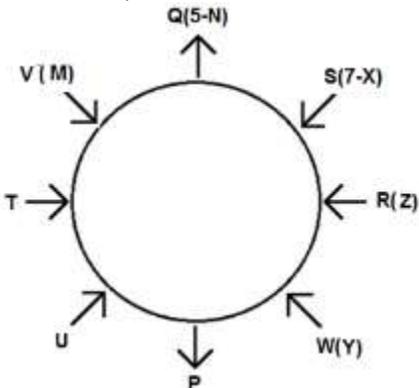
So we have,



Step 2.

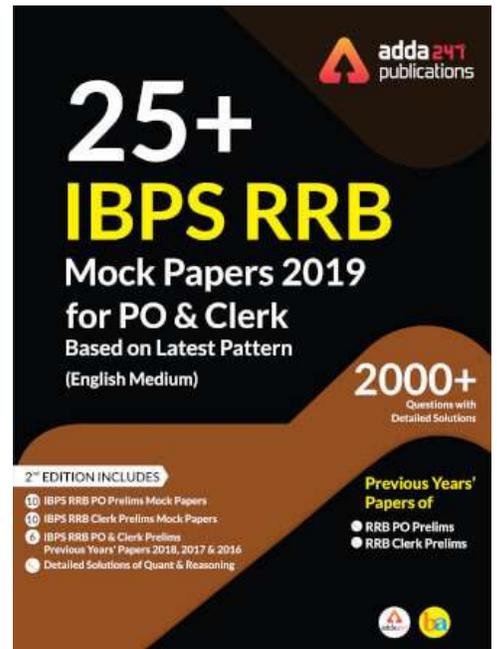
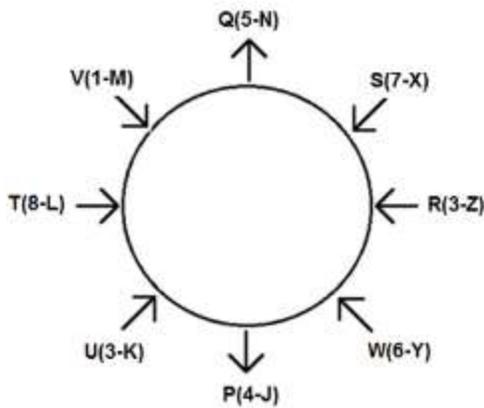
The one who sits to the immediate right of Q plays for X. V who plays for M is sitting third to the right of P. So our case 1 and case 2 will be eliminated and we will proceed with case 3. In which Q and P are facing opposite to the center. Only two such persons are there who do not have anyone sitting in front of them. It means all the other persons except P and Q will be facing towards the center. W who plays for Y sits third to the right of T. It means T sits to the immediate right of V. The person who plays for Z is sitting opposite T. It means R plays for Z and U is sitting between T and P. The one who plays for N played 5 matches. S played two more matches than his immediate right neighbour.

So we have,



Step 3.

Neither P nor W is an immediate neighbour of the person who plays for L. So, clearly T plays for L. U does not play for J. Means P plays for J and U plays for K. The difference between the number of matches played by Q and the one who plays for J is two less than the number of person sitting between them. The one who played for K played 3 matches. The sum of the total number of matches played by the immediate neighbours of P is equal to 9. It means W played 6 matches. U and R are the only two persons who played the same number of matches. It means R played 3 matches and P played four matches. The number of matches played by T is twice the sum of the number of matches played by his immediate neighbors. No one played more than 8 matches. It means V played 1 match while T played eight matches. So we have our final solution as,

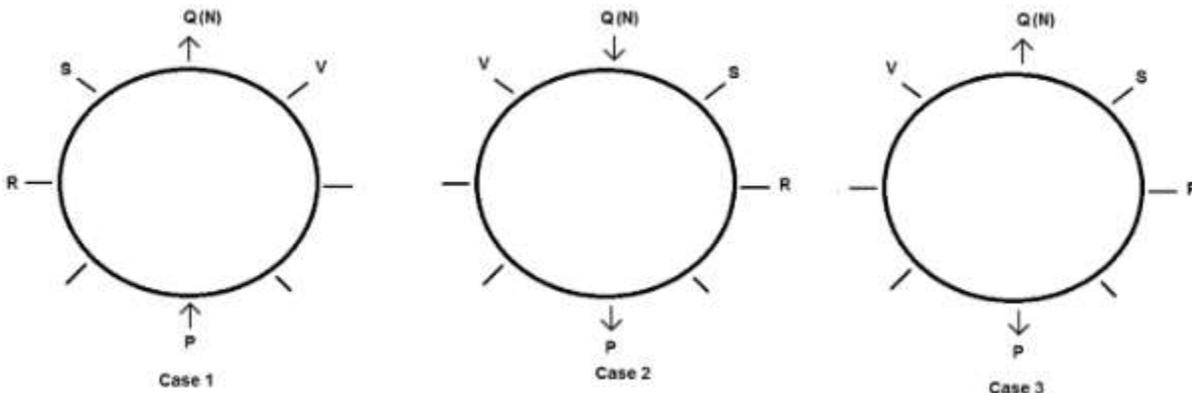


S5. Ans.(b)

Sol. Step 1. From the information given in the question,

S sits third to the left of P. R sits second to the left of P. There can be two possible cases i.e. case 1 when P is facing towards the center and case 2 when P is facing outside the center. Q who plays for N is an immediate neighbour of both S and V. It means Q and P are sitting opposite to each other. P and Q are not facing each other. It means there will three possible cases.

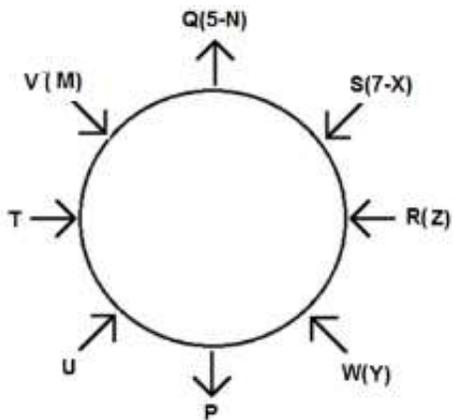
So we have,



Step 2.

The one who sits to the immediate right of Q plays for X. V who plays for M is sitting third to the right of P. So our case 1 and case 2 will be eliminated and we will proceed with case 3. in which Q and P are facing opposite to the center. Only two such persons are there who do not have anyone sitting in front of them. It means all the other persons except P and Q will be facing towards the center. W who plays for Y sits third to the right of T. It means T sits to the immediate right of V. The person who plays for Z is sitting opposite T. It means R plays for Z and U is sitting between T and P. The one who plays for N played 5 matches. S played two more matches than his immediate right neighbour.

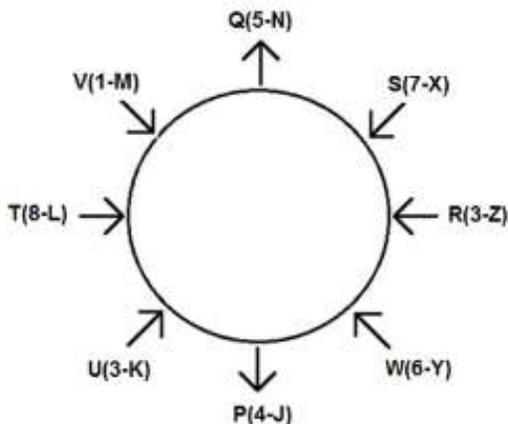
So we have,



Step 3.

Neither P nor W is an immediate neighbour of the person who plays for L. So, clearly T plays for L. U does not play for J. Means P plays for J and U plays for K. The difference between the number of matches played by Q and the one who plays for J is two less than the number of person sitting between them. The one who played for K played 3 matches. The sum of the total number of matches played by the immediate neighbours of P is equal to 9. It means W played 6 matches. U and R are the only two persons who played the same number of matches. It means R played 3 matches and P played four matches. The number of matches played by T is twice the sum of the number of matches played by his immediate neighbors. No one played more than 8 matches. It means V played 1 match while T played eight matches.

So we have our final solution as,



S6. Ans.(b)

Sol.

Candidates	(i) or (1)		(ii) or (2)		(iii)	(iv-a) or (3)		(iv-b)	(iv-c)
	Bhupesh	✓	-	-	✓	X	✓		✓
Uma	✓	-	✓	-	✓	✓		✓	?
Ravi	✓	-	✓	-	✓	✓	-	✓	✓

S7. Ans.(e)

Sol.

Candidates	(i) or (1)		(ii) or (2)		(iii)	(iv-a) or (3)		(iv-b)	(iv-c)
	Bhupesh	✓	-	-	✓	X	✓		✓
Uma	✓	-	✓	-	✓	✓		✓	?
Ravi	✓	-	✓	-	✓	✓	-	✓	✓



S8. Ans.(a)

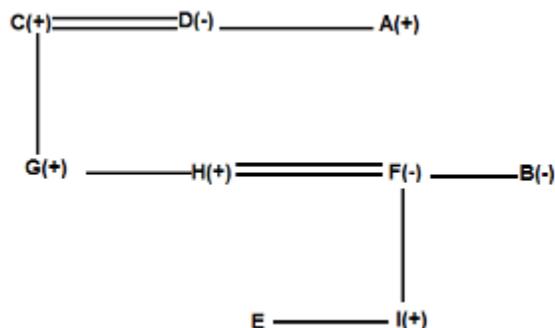
Sol.

Candidates	(i) or (1)		(ii) or (2)		(iii)	(iv-a) or (3)		(iv-b)	(iv-c)
	Bhupesh	✓	-	-	✓	X	✓		✓
Uma	✓	-	✓	-	✓	✓		✓	?
Ravi	✓	-	✓	-	✓	✓	-	✓	✓

S9. Ans.(d)

Sol. Step 1.

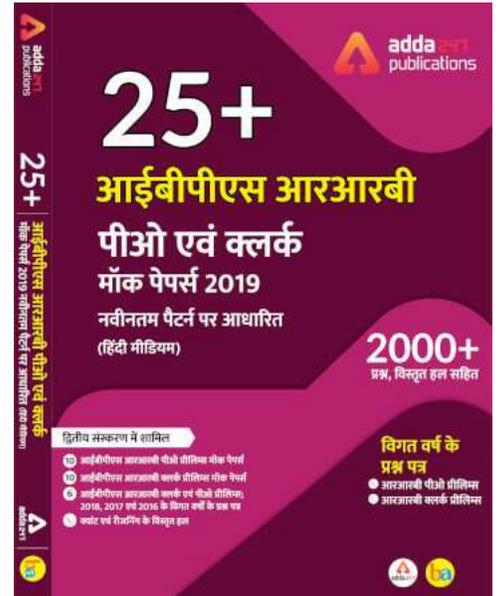
We will first determine the blood relation tree from the following information given in the question, F is the wife of H and she has only two children. C is the father of G, who is the uncle of E. E's maternal aunt does not live on the eight and first floor. E's grandmother lives with T and E's uncle lives with S. B is the sister-in-law of H. E's grandmother has one brother. I is the brother of E. D is the mother of H. F's father-in-law lives with X on the sixth floor. Brother of H is twice as old as E.



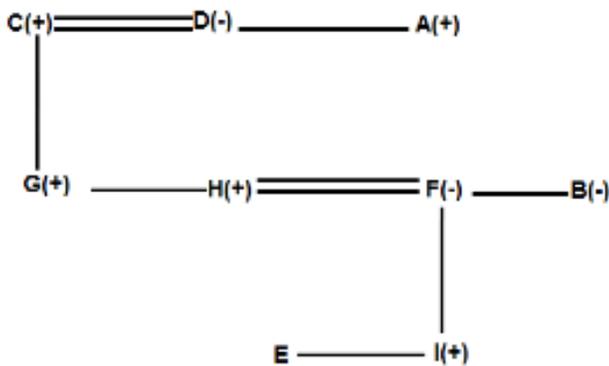
Step 2.

Proceeding with the remaining information,

T lives on the fifth floor. I lives on the ninth floor with R. E's brother is 10 year old. A Singh member who lives on seventh floor is 24 years old. A is twice as old as the Singh member living on the seventh floor. The one who lives on the third floor with V is 43 year old. U lives on the first floor. F's father in law i.e. C lives on the sixth floor with X. B lives with Y. D's husband's brother-in-law lives with Z. S lives on second floor with the person who is 50 years old. E's uncle i.e. G lives with S. E's grandmother i.e. D lives with T. The Singh member who is one years older than B lives on fourth floor, it means B do not live on fourth floor. E's maternal aunt i.e. B does not live on the eighth and first floor. It means B lives on the seventh floor with Y and the one who lives on the fourth floor is 25 years old. A is 48 years old it means A and Z lives on eighth floor. F is not the oldest person in the Singh family. It means either C or D is the oldest. D is two years younger than his family member living on sixth floor. It means C is 72 years old and D is 70 years old. E lives on an even numbered floor. U does not lives with F, it means F lives with V and U lives with H. W lives between F and E's grandmother. And F does not live below G. So we have our final solution as,



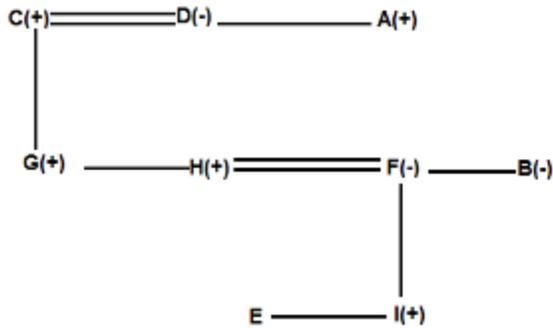
Floor	Singh	Age(Singh)	Khan
9	I	10	R
8	A	48	Z
7	B	24	Y
6	C	72	X
5	D	70	T
4	E	25	W
3	F	43	V
2	G	50	S
1	H		U



S10. Ans.(d)

Sol. Step 1.

We will first determine the blood relation tree from the following information given in the question, F is the wife of H and she has only two children. C is the father of G, who is the uncle of E. E's maternal aunt does not live on the eight and first floor. E's grandmother lives with T and E's uncle lives with S. B is the sister-in-law of H. E's grandmother has one brother. I is the brother of E. D is the mother of H. F's father-in-law lives with X on the sixth floor. Brother of H is twice as old as E.

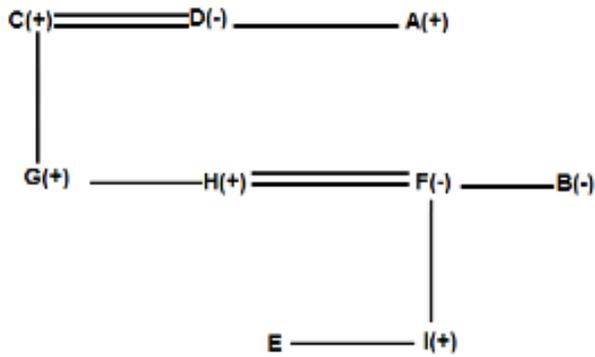


Step 2.

Proceeding with the remaining information,

T lives on the fifth floor. I lives on the ninth floor with R. E's brother is 10 year old. A Singh member who lives on seventh floor is 24 years old. A is twice as old as the Singh member living on the seventh floor. The one who lives on the third floor with V is 43 year old. U lives on the first floor. F's father in law i.e. C lives on the sixth floor with X. B lives with Y. D's husband's brother-in-law lives with Z. S lives on second floor with the person who is 50 years old. E's uncle i.e. G lives with S. E's grandmother i.e. D lives with T. The Singh member who is one years older than B lives on fourth floor, it means B do not live on fourth floor. E's maternal aunt i.e. B does not live on the eight and first floor. It means B lives on the seventh floor with Y and the one who lives on the fourth floor is 25 years old. A is 48 years old it means A and Z lives on eighth floor. F is not the oldest person in the Singh family. It means either C or D is the oldest. D is two years younger than his family member living on sixth floor. It means C is 72 years old and D is 70 years old. E lives on an even numbered floor. U does not lives with F, it means F lives with V and U lives with H. W lives between F and E's grandmother. And F does not live below G. So we have our final solution as,

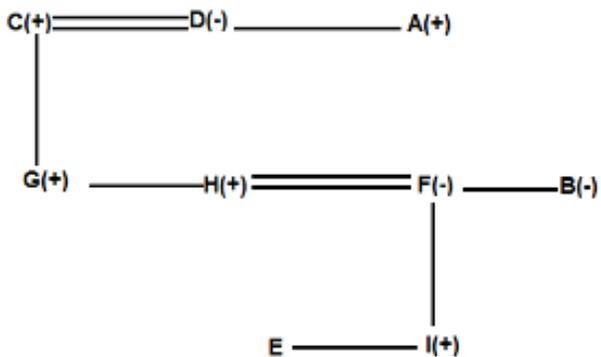
Floor	Singh	Age(Singh)	Khan
9	I	10	R
8	A	48	Z
7	B	24	Y
6	C	72	X
5	D	70	T
4	E	25	W
3	F	43	V
2	G	50	S
1	H		U



S11. Ans.(d)

Sol. Step 1.

We will first determine the blood relation tree from the following information given in the question, F is the wife of H and she has only two children. C is the father of G, who is the uncle of E. E's maternal aunt does not live on the eight and first floor. E's grandmother lives with T and E's uncle lives with S. B is the sister-in-law of H. E's grandmother has one brother. I is the brother of E. D is the mother of H. F's father-in-law lives with X on the sixth floor. Brother of H is twice as old as E.



Step 2.

Proceeding with the remaining information,

T lives on the fifth floor. I lives on the ninth floor with R. E's brother is 10 year old. A Singh member who lives on seventh floor is 24 years old. A is twice as old as the Singh member living on the seventh floor. The one who lives on the third floor with V is 43 year old. U lives on the first floor. F's father in law i.e. C lives on the sixth floor with X. B lives with Y. D's husband's brother-in-law lives with Z. S lives on second floor with the person who is 50 years old. E's uncle i.e. G lives with S. E's grandmother i.e. D lives with T. The Singh member who is one years older than B lives on fourth floor, it means B do not live on fourth floor. E's maternal aunt i.e. B does not live on the eight and first floor. It means B lives on the seventh floor with Y and the one who lives on the fourth floor is 25 years old. A is 48 years old it means A and Z lives on eighth floor. F is not the oldest person in the Singh family. It means either C or D is the oldest. D is two years younger than his family member living on sixth floor. It means C is 72 years old and D is 70 years old. E lives on an even numbered floor. U does not lives with F, it means F lives with V and U lives with H. W lives between F and E's grandmother. And F does not live below G. So we have our final solution as,

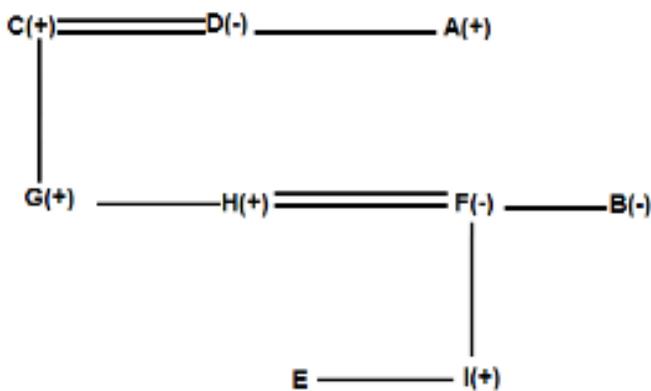
Floor	Singh	Age(Singh)	Khan
9	I	10	R
8	A	48	Z
7	B	24	Y
6	C	72	X
5	D	70	T
4	E	25	W
3	F	43	V
2	G	50	S
1	H		U

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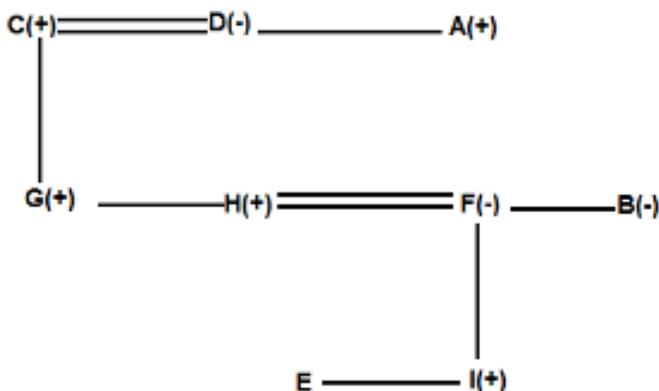
BILINGUAL



S12. Ans.(d)

Sol. Step 1.

We will first determine the blood relation tree from the following information given in the question, F is the wife of H and she has only two children. C is the father of G, who is the uncle of E. E's maternal aunt does not live on the eight and first floor. E's grandmother lives with T and E's uncle lives with S. B is the sister-in-law of H. E's grandmother has one brother. I is the brother of E. D is the mother of H. F's father-in-law lives with X on the sixth floor. Brother of H is twice as old as E.



Step 2.

Proceeding with the remaining information,

T lives on the fifth floor. I lives on the ninth floor with R. E's brother is 10 year old. A Singh member who lives on seventh floor is 24 years old. A is twice as old as the Singh member living on the seventh floor. The one who lives on the third floor with V is 43 year old. U lives on the first floor. F's father in law i.e. C lives on the sixth floor with X. B lives with Y. D's husband's brother-in-law lives with Z. S lives on second floor with the person who is 50 years old. E's uncle i.e. G lives with S. E's grandmother i.e. D lives with T. The Singh member who is one years older than B lives on fourth floor, it means B do not live on fourth floor. E's maternal aunt i.e. B does not live on the eight and first floor. It means B lives on the seventh floor with Y and the one who lives on the fourth floor is 25 years old. A is 48 years old it means A and Z lives on eighth floor. F is not the oldest person in the Singh family. It means either C or D is the oldest. D is two years younger than his family member living on sixth floor. It means C is 72 years old and D is 70 years old. E lives on an even numbered floor. U does not lives with F, it means F lives with V and U lives with H. W lives between F and E's grandmother. And F does not live below G. So we have our final solution as,

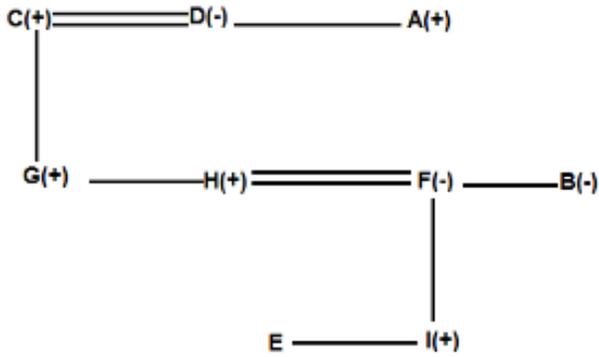
Floor	Singh	Age(Singh)	Khan
9	I	10	R
8	A	48	Z
7	B	24	Y
6	C	72	X
5	D	70	T
4	E	25	W
3	F	43	V
2	G	50	S
1	H		U



S13. Ans.(c)

Sol. Step 1.

We will first determine the blood relation tree from the following information given in the question, F is the wife of H and she has only two children. C is the father of G, who is the uncle of E. E's maternal aunt does not live on the eight and first floor. E's grandmother lives with T and E's uncle lives with S. B is the sister-in-law of H. E's grandmother has one brother. I is the brother of E. D is the mother of H. F's father-in-law lives with X on the sixth floor. Brother of H is twice as old as E.

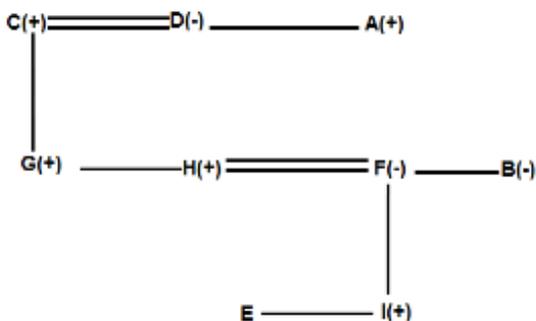


Step 2.

Proceeding with the remaining information,

T lives on the fifth floor. I lives on the ninth floor with R. E's brother is 10 year old. A Singh member who lives on seventh floor is 24 years old. A is twice as old as the Singh member living on the seventh floor. The one who lives on the third floor with V is 43 year old. U lives on the first floor. F's father in law i.e. C lives on the sixth floor with X. B lives with Y. D's husband's brother-in-law lives with Z. S lives on second floor with the person who is 50 years old. E's uncle i.e. G lives with S. E's grandmother i.e. D lives with T. The Singh member who is one years older than B lives on fourth floor, it means B do not live on fourth floor. E's maternal aunt i.e. B does not live on the eight and first floor. It means B lives on the seventh floor with Y and the one who lives on the fourth floor is 25 years old. A is 48 years old it means A and Z lives on eighth floor. F is not the oldest person in the Singh family. It means either C or D is the oldest. D is two years younger than his family member living on sixth floor. It means C is 72 years old and D is 70 years old. E lives on an even numbered floor. U does not lives with F, it means F lives with V and U lives with H. W lives between F and E's grandmother. And F does not live below G. So we have our final solution as,

Floor	Singh	Age(Singh)	Khan
9	I	10	R
8	A	48	Z
7	B	24	Y
6	C	72	X
5	D	70	T
4	E	25	W
3	F	43	V
2	G	50	S
1	H		U



S14. Ans.(d)

Sol. Statement (i) cannot be inferred as nothing relating to the TRP is mentioned in the statement. Statement (ii) cannot be inferred as the statement is only concerned with the bias of media executives and journalists towards a particular party which does not necessarily mean that the ruling party is involved in it.

The fact that some of the senior media executives and journalists were willing to take money in return for pushing a political agenda clearly points to their corrupt intentions. So statement (iii) can be inferred.

S15. Ans.(e)

Sol. It is not appropriate to ban all the imports from country B which might include some essential commodities so (a) not correct. Option (b) is not appropriate as implementing heavy taxes might reduce the consumption of beer imported from country B but the consumption by even one person can be dangerous to him. Similarly we don't know the quantity of beer consumed by people who fell sick after drinking the beer imported from country B so (c) is not appropriate. Option (d) is irrelevant as nothing has been mention in the statement about the imports from country A. Option (e) will be most effective as a corrective and preventive measure.

S16. Ans.(d)

Sol. Logic: - There are six words in the input. In each of the step the words are arranged in reverse alphabetical order such that next letter of the last letter of that word is also placed with it. And also in each step a number is placed at the right end which is the place value of the last letter of the word which is arranged, with the last digit of that number(place value) is repeated once in it. For example Vice (place value of e = 5) so 55 is placed at the rightmost end.

Input: quite similar dull go test vice

Step I: vicef quite similar dull go test 55

Step II: testu vicef quite similar dull go 55 200

Step III: similars testu vicef quite dull go 55 200 188

Step IV: quitef similars testu vicef dull go 55 200 188 55

Step V: gop quitef similars testu vicef dull 55 200 188 55 155

Step VI: dullm gop quitef similars testu vicef 55 200 188 55 155 122

S17. Ans.(b)

Sol. Logic: - There are six words in the input. In each of the step the words are arranged in reverse alphabetical order such that next letter of the last letter of that word is also placed with it. And also in each step a number is placed at the right end which is the place value of the last letter of the word which is arranged, with the last digit of that number(place value) is repeated once in it. For example Vice (place value of e = 5) so 55 is placed at the rightmost end.

Input: quite similar dull go test vice

Step I: vicef quite similar dull go test 55

Step II: testu vicef quite similar dull go 55 200

Step III: similars testu vicef quite dull go 55 200 188

Step IV: quitef similars testu vicef dull go 55 200 188 55

Step V: gop quitef similars testu vicef dull 55 200 188 55 155

Step VI: dullm gop quitef similars testu vicef 55 200 188 55 155 122

S18. Ans.(d)

Sol. Logic: - There are six words in the input. In each of the step the words are arranged in reverse alphabetical order such that next letter of the last letter of that word is also placed with it. And also in each step a number is placed at the right end which is the place value of the last letter of the word which is arranged, with the last digit of that number(place value) is repeated once in it. For example Vice (place value of e = 5) so 55 is placed at the rightmost end.

Input: quite similar dull go test vice

Step I: vicef quite similar dull go test 55

Step II: testu vicef quite similar dull go 55 200

Step III: similars testu vicef quite dull go 55 200 188

Step IV: quitef similars testu vicef dull go 55 200 188 55

Step V: gop quitef similars testu vicef dull 55 200 188 55 155

Step VI: dullm gop quitef similars testu vicef 55 200 188 55 155 122

S19. Ans.(c)

Sol. Logic: - There are six words in the input. In each of the step the words are arranged in reverse alphabetical order such that next letter of the last letter of that word is also placed with it. And also in each step a number is placed at the right end which is the place value of the last letter of the word which is arranged, with the last digit of that number(place value) is repeated once in it. For example Vice (place value of e = 5) so 55 is placed at the rightmost end.

Input: quite similar dull go test vice

Step I: vicef quite similar dull go test 55

Step II: testu vicef quite similar dull go 55 200

Step III: similars testu vicef quite dull go 55 200 188

Step IV: quitef similars testu vicef dull go 55 200 188 55

Step V: gop quitef similars testu vicef dull 55 200 188 55 155

Step VI: dullm gop quitef similars testu vicef 55 200 188 55 155 122

S20. Ans.(a)

Sol. Logic: - There are six words in the input. In each of the step the words are arranged in reverse alphabetical order such that next letter of the last letter of that word is also placed with it. And also in each step a number is placed at the right end which is the place value of the last letter of the word which is arranged, with the last digit of that number(place value) is repeated once in it. For example Vice (place value of e = 5) so 55 is placed at the rightmost end.

Input: quite similar dull go test vice

Step I: vicef quite similar dull go test 55

Step II: testu vicef quite similar dull go 55 200

Step III: similars testu vicef quite dull go 55 200 188

Step IV: quitef similars testu vicef dull go 55 200 188 55

Step V: gop quitef similars testu vicef dull 55 200 188 55 155

Step VI: dullm gop quitef similars testu vicef 55 200 188 55 155 122

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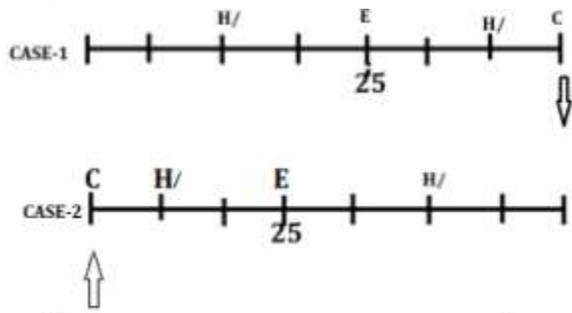
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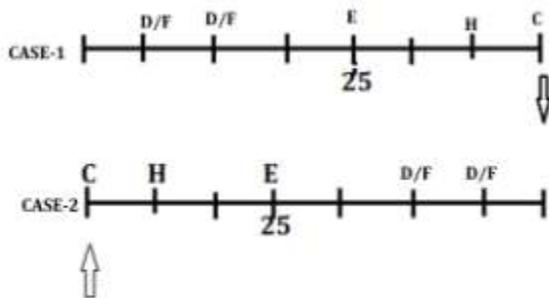
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S21. Ans.(e)

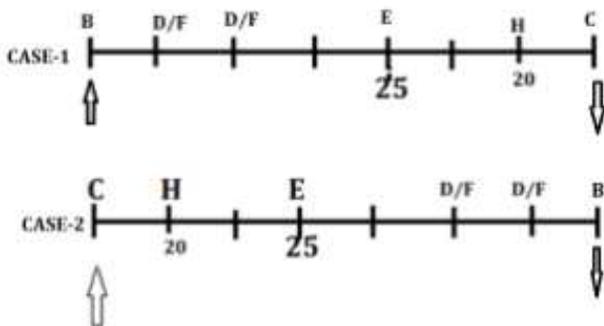
Sol. E sits third to the right of C and his age is a square of 5. C sits at one of the extreme end of the row. Only one person sit between E and H.



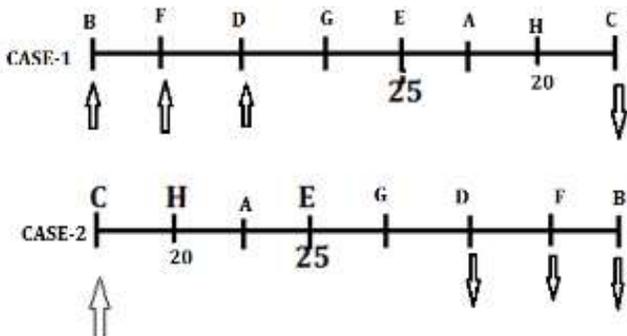
Neither D nor F sits at an extreme end. F sits to the immediate left of D and also faces same direction as D. From the given condition we get that H is an immediate neighbour of C.



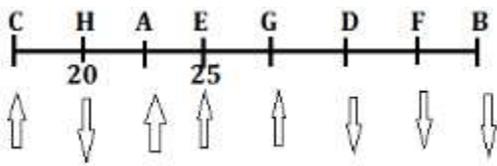
H's age is $\frac{4}{5}$ th of the age of E. B is not an immediate neighbour of E and faces opposite direction as C. So, clearly B sits at the other end and faces opposite direction of C.



Now, we know that the only place left for G is between E and D and F will sit to the immediate right of B. F sits to the immediate left of D and also faces same direction as D. So, F and D face North direction in case-1 and face South in case-2. Rest A sits in between H and E.

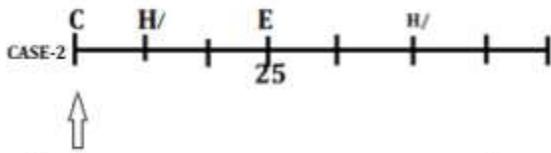
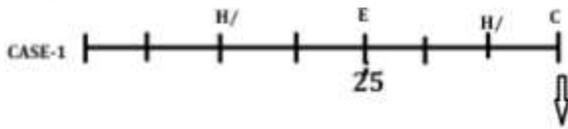


A sits to the left of H but H does not face North. So, from this case-1 will be eliminated. Now Both G and E are facing same direction to each other but opposite direction to B. A faces same direction as E. So, the final arrangement is---

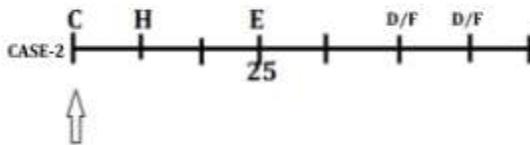
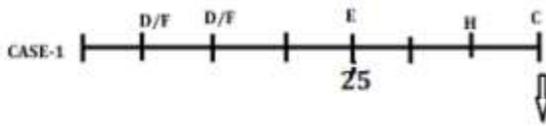


S22. Ans.(a)

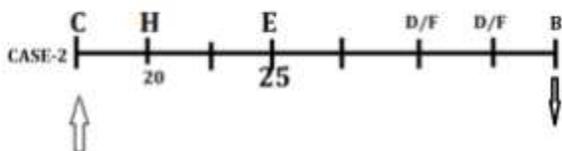
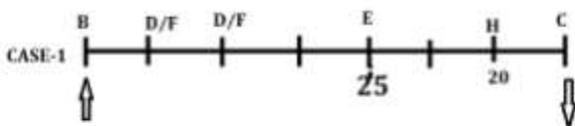
Sol. E sits third to the right of C and his age is a square of 5. C sits at one of the extreme end of the row. Only one person sit between E and H.



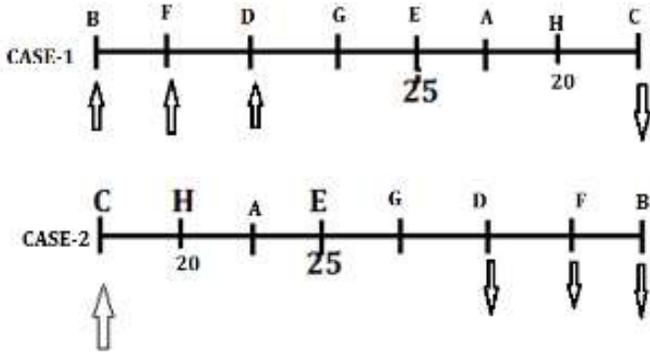
Neither D nor F sits at an extreme end. F sits to the immediate left of D and also faces same direction as D. From the given condition we get that H is an immediate neighbour of C.



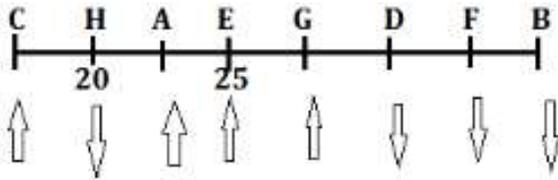
H's age is $\frac{4}{5}$ th of the age of E. B is not an immediate neighbour of E and faces opposite direction as C. So, clearly B sits at the other end and faces opposite direction of C.



Now, we know that the only place left for G is between E and D and F will sit to the immediate right of B. F sits to the immediate left of D and also faces same direction as D. So, F and D face North direction in case-1 and face South in case-2. Rest A sits in between H and E.

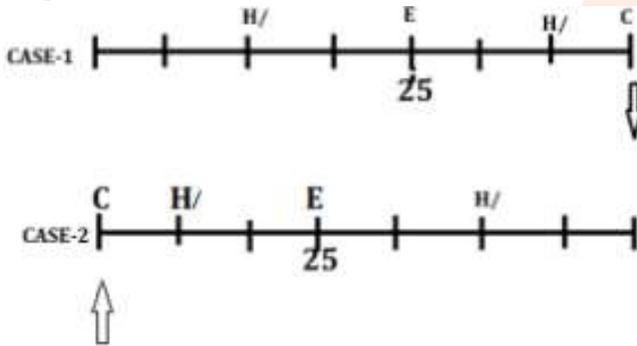


A sits to the left of H but H does not face North. So, from this case-1 will be eliminated. Now Both G and E are facing same direction to each other but opposite direction to B. A faces same direction as E. So, the final arrangement is---

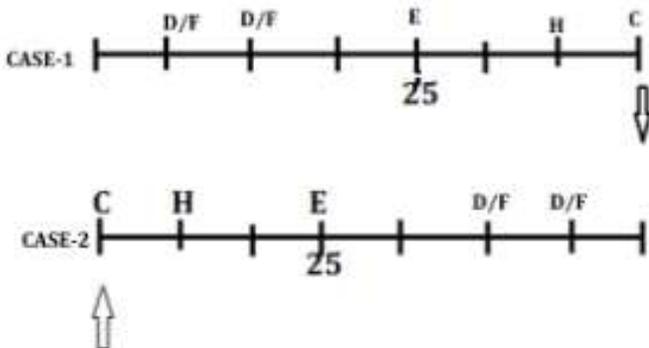


S23. Ans.(c)

Sol. E sits third to the right of C and his age is a square of 5. C sits at one of the extreme end of the row. Only one person sit between E and H.



Neither D nor F sits at an extreme end. F sits to the immediate left of D and also faces same direction as D. From the given condition we get that H is an immediate neighbour of C.



H's age is $\frac{4}{5}$ th of the age of E. B is not an immediate neighbour of E and faces opposite direction as C. So, clearly B sits at the other end and faces opposite direction of C.

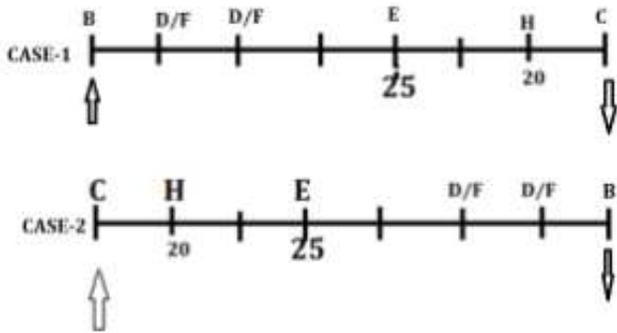
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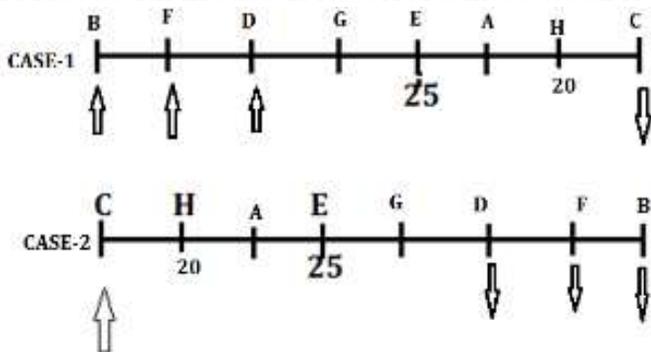
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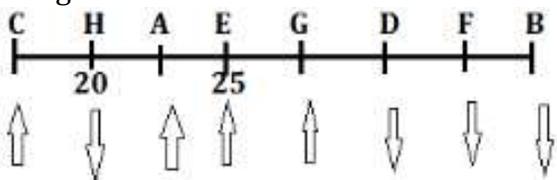
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Now, we know that the only place left for G is between E and D and F will sit to the immediate right of B. F sits to the immediate left of D and also faces same direction as D. So, F and D face North direction in case-1 and face South in case-2. Rest A sits in between H and E.



A sits to the left of H but H does not face North. So, from this case-1 will be eliminated. Now Both G and E are facing same direction to each other but opposite direction to B. A faces same direction as E. So, the final arrangement is---



S24. Ans.(c)

Sol. In this new pattern coding decoding each letter, except vowel, is assigned a number from 1-5 So, B-1, C-2, D-3, F-4, G-5, H-1, J-2, K-3, L-4, M-5, N-1, P-2, Q-3, R-4, S-5, T-1, V-2, W-3, X-4, Y-5, Z-1.

Each vowel is assigned a different symbol as-%, #, \$, @, &. So, for vowels the symbols are - A-@, E-#, I-\$, O-&, U-%.

Nuclear Bomb – Condition (i) applied- 4%24#@1 1&51

S25. Ans.(b)

Sol. In this new pattern coding decoding each letter, except vowel, is assigned a number from 1-5 So, B-1, C-2, D-3, F-4, G-5, H-1, J-2, K-3, L-4, M-5, N-1, P-2, Q-3, R-4, S-5, T-1, V-2, W-3, X-4, Y-5, Z-1.

Each vowel is assigned a different symbol as-%, #, \$, @, &. So, for vowels the symbols are - A-@, E-#, I-\$, O-&, U-%.

War – Condition (i) applied-4@3

And- Condition (ii) applied- *1*

Peace- No condition applied- 2#@2#

S26. Ans.(d)

Sol. In this new pattern coding decoding each letter, except vowel, is assigned a number from 1-5 So, B-1, C-2, D-3, F-4, G-5, H-1, J-2, K-3, L-4, M-5, N-1, P-2, Q-3, R-4, S-5, T-1, V-2, W-3, X-4, Y-5, Z-1.

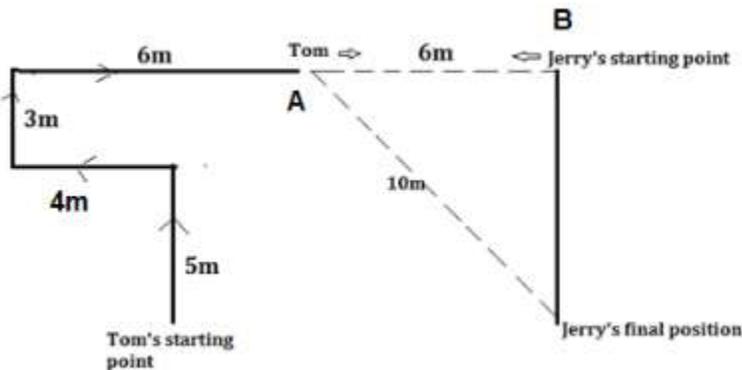
Each vowel is assigned a different symbol as-%, #, \$, @, &. So, for vowels the symbols are - A-@, E-#, I-\$, O-&, U-%.

Own- Condition (ii) applied- *3*

Life- No Condition applied- 4\$4#

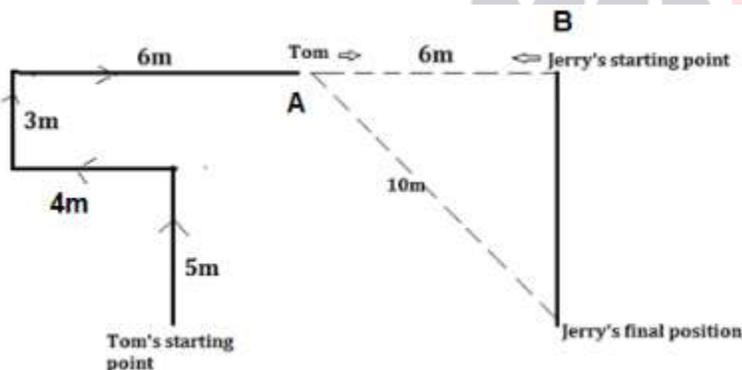
S27. Ans.(a)

Sol. As from the given conditions we get that only possible condition is that Tom start walking in North direction.



S28. Ans.(d)

Sol. As from the given conditions we get that only possible condition is that Tom start walking in North direction.



distance between the points at Jerry stopped from the point he starts walking

$$= \sqrt{10^2 - 6^2} \text{ m}$$
$$= 8\text{m}$$

S29. Ans.(e)

Sol. Statement (b), (c) and (d) talks about the digestibility of grains or their bad effects while the statement is only concerned with the addictive nature of grains.

Statement (a) is irrelevant. Statement (e) points to a fact which proves the addictive nature of grains.

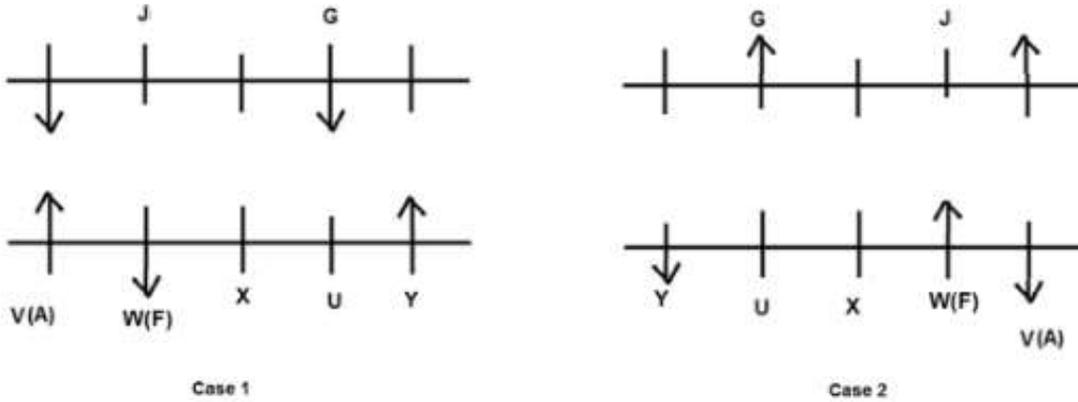
S30. Ans.(e)

Sol. Step 1.

From the information given in the question,
The player from A is sitting at the extreme end. U sits third to the right of V. V belongs to A. J sits immediate left of the person, who sits opposite to V. Only one person sits between J and G.

W, who is the oldest is not an immediate neighbour of U. It means W sits to the immediate right of V. K is the fifth youngest person. G was born in Jan. It means G was born on 29th Jan. The one who sits second to the right of G is the youngest. It means J is the youngest. Y sits third to the left of W. Y faces opposite direction to W who belongs to F. It means X is sitting between W and U.

So we have,



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May		J

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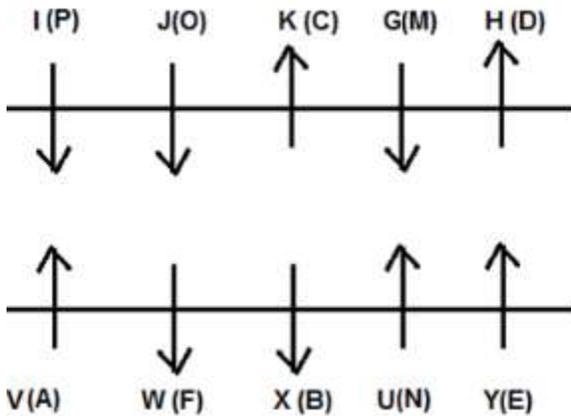
Step 2.

Proceeding with the remaining information,

H is to the immediate left of G. K sits second to the left of H who belongs to D. J sits to the immediate left of K. K belongs to C. The one who belongs to B sits opposite to K. It means X belongs to B. U and his immediate neighbor were born in the same month. U is older than X who is older than Y. The number of persons born between H and X is the same as the number of persons born between U and G. H was not born in March. V was not born in the month which has 31 days. It means H was born on 13th Feb. V was born on 29th Feb and I was born on 13th March. The fifth oldest person is facing south. It means our case 2 will be eliminated. J and U face opposite directions. Y is to the immediate right of U. The one who belongs to O is sitting to the right of the one who belongs to M. The persons who belongs to P and E are sitting diagonally opposite to

each other. The one who belongs to P is older than Y. It means Y belongs to E and I belongs to P. The one who belongs to N sits in Row-2. It means U belongs to N.

So we have our final solution as,



Month ↓ / Day →	13th	29th
Jan	W	G
Feb	H	V
Mar	I	K
Apr	U	X
May	Y	J

S31. Ans.(a)

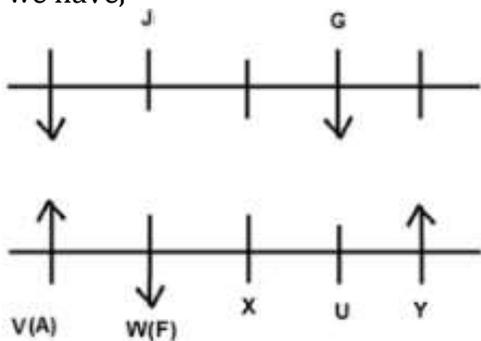
Sol. Step 1.

From the information given in the question,

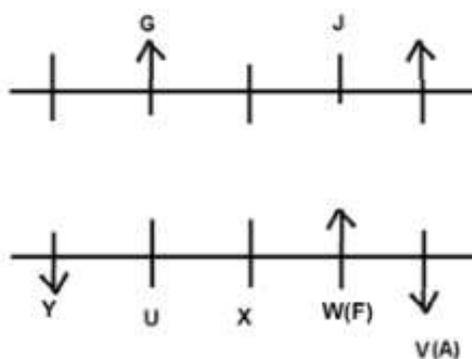
The player from A is sitting at the extreme end. U sits third to the right of V. V belongs to A. J sits immediate left of the person, who sits opposite to V. Only one person sits between J and G.

W, who is the oldest is not an immediate neighbour of U. It means W sits to the immediate right of V. K is the fifth youngest person. G was born in Jan. It means G was born on 29th Jan. The one who sits second to the right of G is the youngest. It means J is the youngest. Y sits third to the left of W. Y faces opposite direction to W who belongs to F. It means X is sitting between W and U.

So we have,



Case 1



Case 2

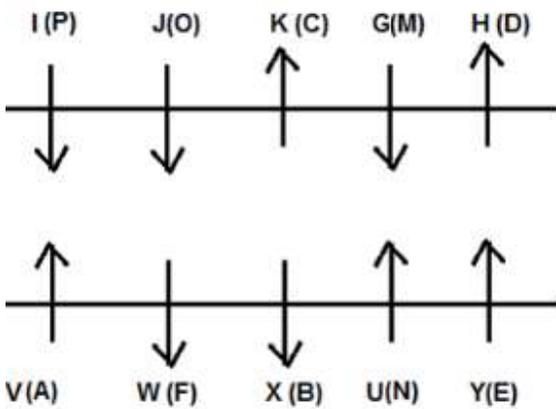
Month ↓ / Day →	13th	29th
Jan	W	G
Feb		
Mar		K
Apr		
May		J

Step 2.

Proceeding with the remaining information,

H is to the immediate left of G. K sits second to the left of H who belongs to D. J sits to the immediate left of K. K belongs to C. The one who belongs to B sits opposite to K. It means X belongs to B. U and his immediate neighbor were born in the same month. U is older than X who is older than Y. The number of persons born between H and X is the same as the number of persons born between U and G. H was not born in March. V was not born in the month which has 31 days. It means H was born on 13th Feb. V was born on 29th Feb and I was born on 13th March. The fifth oldest person is facing south. It means our case 2 will be eliminated. J and U face opposite directions. Y is to the immediate right of U. The one who belongs to O is sitting to the right of the one who belongs to M. The persons who belongs to P and E are sitting diagonally opposite to each other. The one who belongs to P is older than Y. It means Y belongs to E and I belongs to P. The one who belongs to N sits in Row-2. It means U belongs to N.

So we have our final solution as,



Month ↓ / Day →	13th	29th
Jan	W	G
Feb	H	V
Mar	I	K
Apr	U	X
May	Y	J

The fact that V was born in 29th February means G was born in a leap year.

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S32. Ans.(d)

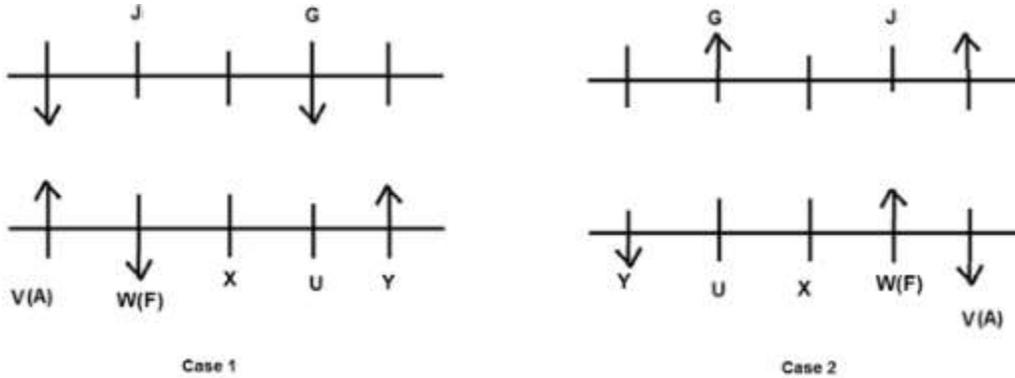
Sol. Step 1.

From the information given in the question,

The player from A is sitting at the extreme end. U sits third to the right of V. V belongs to A. J sits immediate left of the person, who sits opposite to V. Only one person sits between J and G.

W, who is the oldest is not an immediate neighbour of U. It means W sits to the immediate right of V. K is the fifth youngest person. G was born in Jan. It means G was born on 29th Jan. The one who sits second to the right of G is the youngest. It means J is the youngest. Y sits third to the left of W. Y faces opposite direction to W who belongs to F. It means X is sitting between W and U.

So we have,



Month ↓	Day →	
	13th	29th
Jan	W	G
Feb		
Mar		K
Apr		
May		J

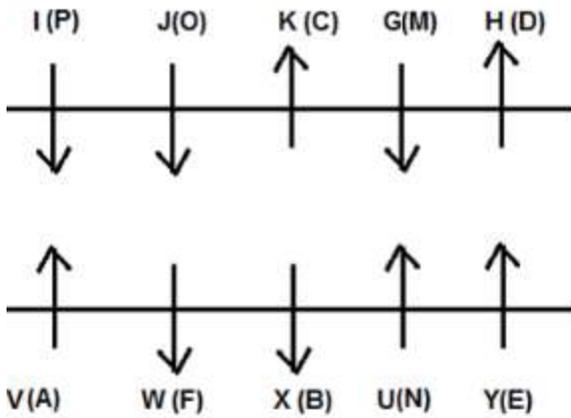


Step 2.

Proceeding with the remaining information,

H is to the immediate left of G. K sits second to the left of H who belongs to D. J sits to the immediate left of K. K belongs to C. The one who belongs to B sits opposite to K. It means X belongs to B. U and his immediate neighbor were born in the same month. U is older than X who is older than Y. The number of persons born between H and X is the same as the number of persons born between U and G. H was not born in March. V was not born in the month which has 31 days. It means H was born on 13th Feb. V was born on 29th Feb and I was born on 13th March. The fifth oldest person is facing south. It means our case 2 will be eliminated. J and U face opposite directions. Y is to the immediate right of U. The one who belongs to O is sitting to the right of the one who belongs to M. The persons who belongs to P and E are sitting diagonally opposite to each other. The one who belongs to P is older than Y. It means Y belongs to E and I belongs to P. The one who belongs to N sits in Row-2. It means U belongs to N.

So we have our final solution as,



Month ↓ / Day →	13th	29th
Jan	W	G
Feb	H	V
Mar	I	K
Apr	U	X
May	Y	J

S33. Ans.(c)

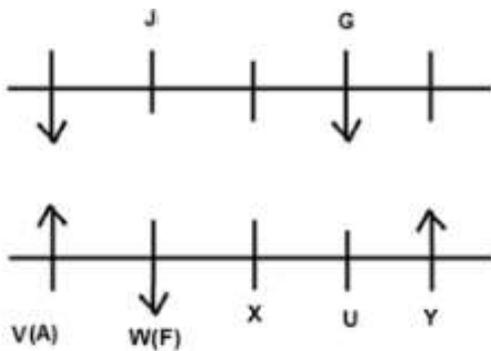
Sol. Step 1.

From the information given in the question,

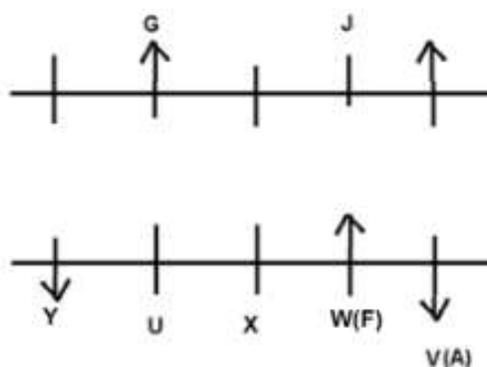
The player from A is sitting at the extreme end. U sits third to the right of V. V belongs to A. J sits immediate left of the person, who sits opposite to V. Only one person sits between J and G.

W, who is the oldest is not an immediate neighbour of U. It means W sits to the immediate right of V. K is the fifth youngest person. G was born in Jan. It means G was born on 29th Jan. The one who sits second to the right of G is the youngest. It means J is the youngest. Y sits third to the left of W. Y faces opposite direction to W who belongs to F. It means X is sitting between W and U.

So we have,



Case 1



Case 2

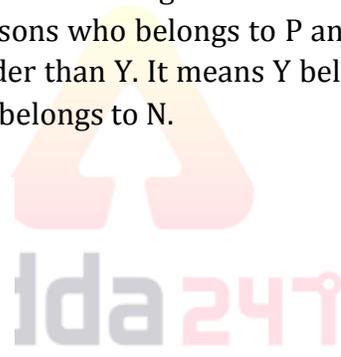
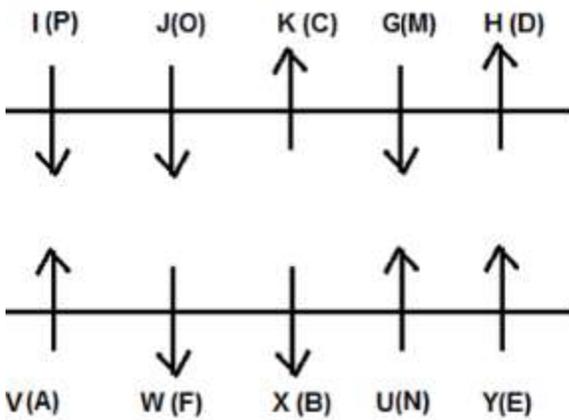
Month ↓ / Day →	13th	29th
Jan	W	G
Feb		
Mar		K
Apr		
May		J

Step 2.

Proceeding with the remaining information,

H is to the immediate left of G. K sits second to the left of H who belongs to D. J sits to the immediate left of K. K belongs to C. The one who belongs to B sits opposite to K. It means X belongs to B. U and his immediate neighbor were born in the same month. U is older than X who is older than Y. The number of persons born between H and X is the same as the number of persons born between U and G. H was not born in March. V was not born in the month which has 31 days. It means H was born on 13th Feb. V was born on 29th Feb and I was born on 13th March. The fifth oldest person is facing south. It means our case 2 will be eliminated. J and U face opposite directions. Y is to the immediate right of U. The one who belongs to O is sitting to the right of the one who belongs to M. The persons who belongs to P and E are sitting diagonally opposite to each other. The one who belongs to P is older than Y. It means Y belongs to E and I belongs to P. The one who belongs to N sits in Row-2. It means U belongs to N.

So we have our final solution as,



Month ↓ / Day →	13th	29th
Jan	W	G
Feb	H	V
Mar	I	K
Apr	U	X
May	Y	J

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S34. Ans.(e)

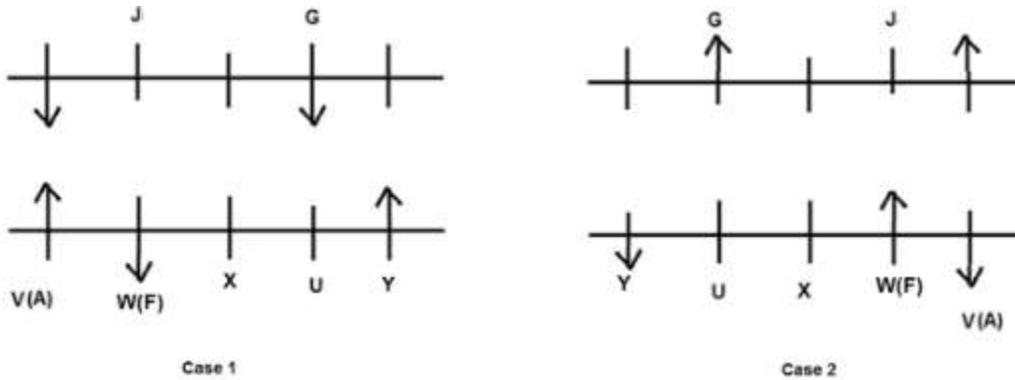
Sol. Step 1.

From the information given in the question,

The player from A is sitting at the extreme end. U sits third to the right of V. V belongs to A. J sits immediate left of the person, who sits opposite to V. Only one person sits between J and G.

W, who is the oldest is not an immediate neighbour of U. It means W sits to the immediate right of V. K is the fifth youngest person. G was born in Jan. It means G was born on 29th Jan. The one who sits second to the right of G is the youngest. It means J is the youngest. Y sits third to the left of W. Y faces opposite direction to W who belongs to F. It means X is sitting between W and U.

So we have,



Month ↓	Day →	
	13th	29th
Jan	W	G
Feb		
Mar		K
Apr		
May		J

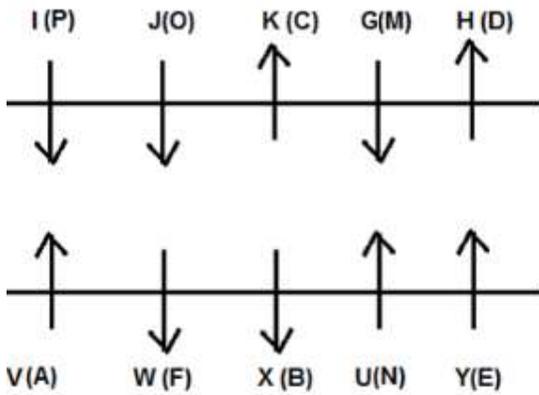


Step 2.

Proceeding with the remaining information,

H is to the immediate left of G. K sits second to the left of H who belongs to D. J sits to the immediate left of K. K belongs to C. The one who belongs to B sits opposite to K. It means X belongs to B. U and his immediate neighbor were born in the same month. U is older than X who is older than Y. The number of persons born between H and X is the same as the number of persons born between U and G. H was not born in March. V was not born in the month which has 31 days. It means H was born on 13th Feb. V was born on 29th Feb and I was born on 13th March. The fifth oldest person is facing south. It means our case 2 will be eliminated. J and U face opposite directions. Y is to the immediate right of U. The one who belongs to O is sitting to the right of the one who belongs to M. The persons who belongs to P and E are sitting diagonally opposite to each other. The one who belongs to P is older than Y. It means Y belongs to E and I belongs to P. The one who belongs to N sits in Row-2. It means U belongs to N.

So we have our final solution as,

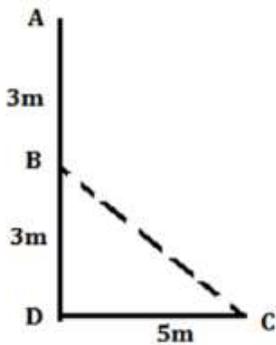


Month ↓	Day →	
	13th	29th
Jan	W	G
Feb	H	V
Mar	I	K
Apr	U	X
May	Y	J

S35. Ans.(d)

Sol.

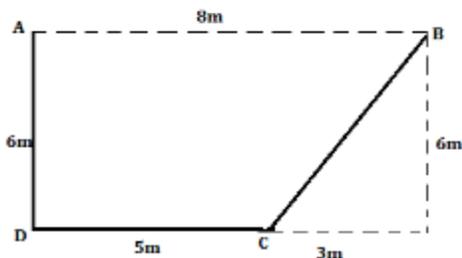
The distance between point B and C = $\sqrt{3^2 + 5^2}$
 $= \sqrt{34}$ m



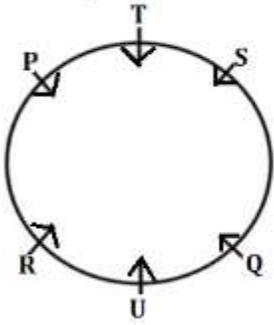
S36. Ans.(b)

Sol.

The distance between B and C = $\sqrt{6^2 + 3^2} = \sqrt{45}$ m



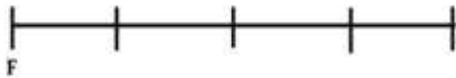
From II,



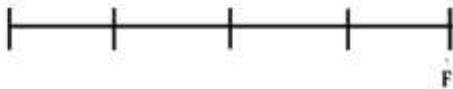
S41. Ans.(e)

Sol.

From I,

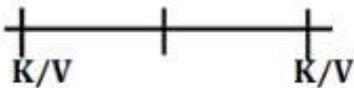


OR



And, Pink < Red < Purple

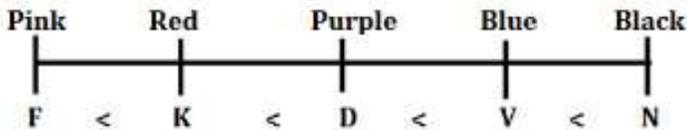
From II,



Purple < Blue < Black (N) and Pink < D

From both I and II,

We get that F is the lightest box and is of Pink color and K is second heaviest and is of Red color.



S42. Ans.(d)

Sol. From I,

5. L/O

4.

3. M April

2.

1. O/L

And L can be born either in September or November. And O is born in January.

From II,

$$K < L < N$$

From both I and II,

Even by combining both the statements we only know that K is born in November and N is born in July but we cannot find that either K or N live on 4th floor, so both together are not sufficient.

5. L September

4. K/N November/ July

3. M April

2. K/N November /July

1. O January

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S43. Ans.(b)

Sol. The one who got first rank run complete 100m but rest all run different distance but less than 100m in that time. The one who got II rank is only 5m behind the border line. Means the one who got II rank runs 95m. The difference between the distance covered by C and D is 5m. C covers less distance than F. F runs less distance than E. Both A and B run less distance than D. Means either F or D got second rank but None of the given person runs 90m. C run 10 km more than G. So, clearly F got II rank.

Rank	Persons	Distance
I	E	100m
II	F	95m

The difference between the distance covered by C and G is same as the distance covered by F and A. So, clearly A covers 85m. The difference between the sum of the distance covered by A and D and sum of the distance covered by E and F is 23. From this we get that D covers 87m.

Rank	Persons	Distance
I	E	100m
II	F	95m
	D	87m
	A	85m

The difference between the distance covered by C and D is 5m. C run 10 km more than G. Nobody covers less distance than 75m. It means C runs 92m and G runs 82m and also C & D got III and IV rank respectively. B covers 3m less distance than G. So, the final arrangement is---

Rank	Persons	Distance
I	E	100m
II	F	95m
III	C	92m
IV	D	87m
V	A	85m
VI	G	82m
VII	B	79m

S44. Ans.(c)

Sol. The one who got first rank run complete 100m but rest all run different distance but less than 100m in that time. The one who got II rank is only 5m behind the border line. Means the one who got II rank runs 95m. The difference between the distance covered by C and D is 5m. C covers less distance than F. F runs less distance than E. Both A and B run less distance than D. Means either F or D got second rank but None of the given person runs 90m. C run 10 km more than G. So, clearly F got II rank.

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Rank	Persons	Distance
I	E	100m
II	F	95m
III	C	92m
IV	D	87m
V	A	85m
VI	G	82m
VII	B	79m

S45. Ans.(d)

Sol. The one who got first rank run complete 100m but rest all run different distance but less than 100m in that time. The one who got II rank is only 5m behind the border line. Means the one who got II rank runs 95m. The difference between the distance covered by C and D is 5m. C covers less distance than F. F runs less distance than E. Both A and B run less distance than D. Means either F or D got second rank but None of the given person runs 90m. C run 10 km more than G. So, clearly F got II rank.

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I	E	100m
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Rank	Persons	Distance
I	E	100m
II	F	95m
III	C	92m
IV	D	87m
V	A	85m
VI	G	82m
VII	B	79m

Quantitative Aptitude - Solutions

S46. Ans.(d)

Sol.

Ratio between A's , B and C's profit share

$$= 45 \times 8 : 9x \times 6 : 11x \times 12$$

$$= 60 : 9x : 22x$$

Let profit sharing of A, B and C be $60z$, $9xz$ and $22xz$ respectively.

ATQ,

$$22xz - 9xz = 2340$$

$$\Rightarrow 13xz = 2340$$

$$\Rightarrow xz = 180$$

B's and C's share in profit is 9×180 and 22×180 respectively.

$$\text{A's share in profit} = \frac{9 \times 180}{6} \times 5 = 1350$$

$$\text{Total profit earned by all three together} = 1350 + 1620 + 3960 = 6930$$

S47. Ans.(c)

Sol. Ratio between A's, B and C's profit share

$$= 45 \times 8 : 9x \times 6 : 11x \times 12$$

$$= 60 : 9x : 22x$$

ATQ,

$$\frac{60}{60 + 9x + 22x} = \frac{600}{2460}$$

$$\Rightarrow 246 = 60 + 31x$$

$$\Rightarrow x = \frac{186}{31} = 6$$

S48. Ans.(c)

Sol.

$\angle ABC = 90^\circ$ (Semicircle property)

$$\angle CAB + \angle ACB + \angle ABC = 180^\circ$$

$$\angle CAB + \angle ACB = 90^\circ$$

As $\angle ACB \leq 45^\circ$ So, $\angle CAB \geq 45^\circ$

$$\angle ACD + \angle CAD + \angle ADC = 180^\circ$$

$$\angle CAD + \angle ADC = 90^\circ$$

But $\angle ACB = \angle CAD$ ($AD \parallel BC$)

$$\angle ACB + \angle ADC = 90^\circ$$

As $\angle ACB \leq 45^\circ$ So, $\angle ADC \geq 45^\circ$

Quantity I \geq Quantity II

S49. Ans.(b)

Sol.

Case I: When all 4 black flag selected

Two ways could be

1 green flag + 1 blue flag or 2 blue flags

$$\text{No. of ways to arrange} = \frac{6!}{4!} + \frac{6!}{4!2!}$$

Case II:

When all 3 blue flag selected

3 ways could be

2 black flags + 1 green flag or 3 black flags

$$\text{No. of ways} = \frac{6!}{3!2!} + \frac{6!}{3!3!}$$

Case III:

When one green selected

\Rightarrow 3 black + 2 blue [other cases already included]

$$\frac{6!}{3!2!}$$



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$$\Rightarrow 30 + 15 + 60 + 20 + 60$$
$$= 185$$

S50. Ans.(a)

Sol.

All colored used \Rightarrow

1 green flag + 2 black flags + 3 blue flags

1 green flags + 3 black flags + 2 blue flags

1 green flag + 4 black flags + 1 blue flag

$$\Rightarrow \frac{6!}{2!3!} + \frac{6!}{3!2!} + \frac{6!}{4!}$$

$$\Rightarrow 60 + 60 + 30$$

$$= 150$$

S51. Ans.(b)

Sol.

$$\text{Length of train B} = \frac{18}{100} \times 1600 = 288\text{m}$$

$$\text{Length of Train D} = \frac{12}{100} \times 1600 = 192\text{m}$$

$$\text{Length of Train F} = \frac{8}{100} \times 1600 = 128\text{m}$$

$$\text{Speed of train B on Monday} = 97.2 \times \frac{5}{18} = 27 \text{ m/sec}$$

$$\text{Speed of train 'B' on Wednesday} = \frac{27}{3} \times 5 = 45 \text{ m/sec}$$

ATQ,

$$288 + 192 = (45 + y) \times 6$$

where y is the speed of train 'D' on Wednesday

$$\Rightarrow y = 80 - 45 = 35 \text{ m/sec}$$

$$\text{Speed of train 'D' on Monday} = \frac{35}{7} \times 4 = 20 \text{ m/sec}$$

$$\text{Time required to cross train F} = \frac{192+128}{20+20} = 8 \text{ seconds}$$

S52. Ans.(e)

Sol.

Let speed of train 'C' on Monday, Tuesday and Wednesday be 4x, 6x and 5x respectively.

Train 'C' travel 5 hours on Monday and 15 hours on Tuesday.

$$\therefore \text{Total distance} = 5 \times 4x + 15 \times 6x$$

$$= 110x$$

On the same day i.e, Tuesday, train 'C' start from Kanpur. It travels 6 hours on Tuesday and 17.8 hours on Wednesday.

$$\begin{aligned} \therefore \text{total distance travel} &= 6 \times 6x + 17.8 \times 5x \\ &= 36x + 89x \\ &= 125x \\ \text{ATQ, } 125x &= 110x + 180 \\ \Rightarrow 15x &= 180 \\ \Rightarrow x &= 12 \\ \text{speed of train 'C' on Monday} \\ &= 12 \times 4 = 48 \text{ km/hour} = \frac{40}{3} \text{ m/sec} \\ \text{Length of train 'C'} &= \frac{24}{100} \times 1600 = 384 \\ \text{Required time} &= \frac{384}{40} \times 3 = 28.8 \text{ sec} \end{aligned}$$

S53. Ans.(a)

Sol.

Let, speed of train 'A' and train 'C' on Monday be '4x' and '4y' respectively

ATQ,

$$2.5 = \frac{900}{4x} - \frac{900}{4y}$$

$$2.5 = 225 \left[\frac{1}{x} - \frac{1}{y} \right]$$

$$xy = 90(y - x)$$

$$\text{length of train 'A'} = \frac{16}{100} \times 1600 = 256$$

$$\text{speed of train 'A' on Tuesday} = \frac{256+128}{12.8} = \frac{384}{12.8}$$

$$= 30 \text{ m/sec}$$

$$\Rightarrow \text{Speed of train 'A' on Monday} = \frac{30}{3} \times 2 = 20 \text{ m/sec} = 72 \text{ km/hr}$$

$$\Rightarrow 4x = 72$$

$$\Rightarrow x = 18$$

$$xy = 90(y - x)$$

$$y = 5(y - 18)$$

$$\Rightarrow y = 22.5$$

$$\text{Speed of train 'C' on Monday} = 4y$$

$$= 4 \times 22.5$$

$$= 90 \text{ km/hr}$$

$$\text{Speed of train 'C' on Tuesday} = \frac{90}{4} \times 6$$

$$= 135 \text{ km/hr}$$

$$= 37.5 \text{ m/sec}$$

$$\text{Length of train 'C'} = \frac{24}{100} \times 1600 = 384$$

$$\text{Required time} = \frac{384+66}{37.5} = 12 \text{ seconds}$$

S54. Ans.(a)

Sol.

$$\text{Length of train 'E'} = \frac{22}{100} \times 1600 = 352$$

$$\text{Length of train 'F'} = \frac{8}{100} \times 1600 = 128$$

Let speed of train 'E' and train 'F' on Monday be 6x and 4y respectively.

$$\Rightarrow \frac{6x}{4y} = \frac{3}{2} \Rightarrow \frac{x}{y} = \frac{1}{1}$$

Let speed of train 'E' on Tuesday = $9x$
 So speed of train 'F' on Tuesday = $5y = 5x$

ATQ,

$$9x - 5x = \frac{352+128}{24} = 20$$

$$\Rightarrow 4x = 20$$

$$\Rightarrow x = 5$$

Speed of train 'E' on Wednesday = $5 \times 5 = 25$ m/sec

Speed of train 'F' on Wednesday = $3 \times 5 = 15$ m/sec

$$\text{Required time} = \frac{352+128}{25-15} = \frac{480}{10} = 48 \text{ seconds}$$

S55. Ans.(b)

Sol.

Let, speed of train 'B' on Monday, Tuesday & Wednesday be $3x$, $4x$ & $5x$ respectively.

And speed of train 'D' on Monday, Tuesday & Wednesday be $4y$, $4y$ & $7y$ respectively.

$$\text{Length of train 'B'} = \frac{18}{100} \times 1600 = 288$$

$$\text{Length of train 'D'} = \frac{12}{100} \times 1600 = 192$$

ATQ,

$$\frac{288}{3x} = \frac{1}{4y}$$

$$\Rightarrow \frac{3}{2} \times \frac{4y}{3x} = \frac{1}{1}$$

$$\Rightarrow \frac{y}{x} = \frac{1}{2}$$

$$\Rightarrow x = 2y$$

$$\text{Time taken by train 'B' on Wednesday to cross pole} = \frac{288}{5x} = \frac{57.6}{x}$$

$$\text{Time taken by train 'D' on Monday to cross a pole} = \frac{192}{4y} = \frac{96}{x}$$

$$\text{Required \%} = \frac{\left(\frac{96}{x} - \frac{57.6}{x}\right) \times 100}{\frac{96}{x}}$$

$$= \frac{38.4}{96} \times 100 = 40\%$$

S56. Ans.(a)

Sol. Quantity I:

Let, no. of males = x

ATQ,

$$2 \times \frac{x}{x+6} \times \frac{6}{x+5} + \frac{x(x-1)}{(x+6)(x+5)} = \frac{7}{8}$$

$$\frac{12x+x^2-x}{(x+6)(x+5)} = \frac{7}{8}$$

$$88x + 8x^2 = 7(x^2 + 5x + 6x + 30)$$

$$x^2 + 11x - 210 = 0$$

$$x^2 + 21x - 10x - 210 = 0$$

$$x(x+21) - 10(x+21) = 0$$

$$x = 10, -21$$

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Quantity II:

Ratio between investment of A, B and C is 135 : 9y : 11y

Profit sharing of A, B and C is

$$135 \times 8 : 9y \times 5 : 11y \times 12$$

$$= 360 : 15y : 44y$$

ATQ,

$$\frac{900}{2080} = \frac{360}{360+59y}$$

$$\Rightarrow (360 + 59y) = 104 \times 8$$

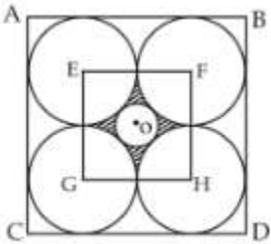
$$\Rightarrow 59y = 472$$

$$\Rightarrow y = 8$$

Quantity I > Quantity II

S57. Ans.(d)

Sol.



By joining the centers of all four circles, a square is formed which contains 4 quadrants of circles which together make a complete circle.

Area of shaded region = Area of square(EFGH) - Area of bigger circle - Area of smaller circle

Let radius of smaller circle and bigger circle be 'r' and 'R' respectively

Then relation between 'r' and 'R' is

$$r = R(\sqrt{2} - 1)$$

A → Radius of bigger circle is given

By this side of square, radius of smaller circle can be found out. So, area of shaded region can be found out

B → Diagonal of square is given

By this, side of square then radius of bigger circle and then radius of smaller circle can be found out

After that shaded region can be found out

C → by using this we can find out the radius of the both circles and side of square.

$$\pi R^2 - \pi r^2 = \text{given}$$

Relation between R and r is:-

$$r = R(\sqrt{2} - 1)$$

Hence, Any of A, B or C alone is sufficient to answer the question

S58. Ans.(b)

Sol. From A,

Given $r : h = 7 : 8$

From B

$$\text{Radius of cone} = \frac{\text{Radius of hemisphere}}{2}$$

$$\text{Volume of hemisphere} = \frac{2}{3}\pi r^3$$

$$\frac{2}{3}\pi r^3 = 19404$$

$$r^3 = \frac{19404 \times 3 \times 7}{22 \times 2}$$

$$r^3 = 9261$$

$$r = 21 \text{ cm}$$

From A & B together —

$$\text{Radius of cone} = \frac{21}{2} \text{ cm}$$

$$\text{Height of cone} = \frac{10.5}{7} \times 8 = 12 \text{ cm}$$

So from A and B we can determine the surface area of cone.

From A and C,

Given, radius of cone : height of cone = 7 : 8

Ratio between height and radius of cylinder = 8 : 7

$$2\pi r (r + h) = 2640 \text{ cm}^3$$

$$2\pi 7x (8x + 7x) = 2640$$

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

$$\text{Radius of cone} = 7 \times 2 \times \frac{75}{100} = 10.5 \text{ cm}$$

$$\text{Height of cone} = \frac{10.5}{7} \times 8 = 12 \text{ cm}$$

So, from A and B or from A and C, we can determine the surface area of cone

S59. Ans.(a)

Sol.

From A,

$$8t_8 = 18t_{18}$$

We have to find $26t_{26}$

$$8(a + 7d) = 18(a + 17d)$$

$$8a + 56d = 18a + 306d$$

$$10a + 250d = 0$$

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$$(a + 25d) = 0$$

$$\text{So } 26^{\text{th}} \text{ term of } = (a + 25d) = 0$$

$$26 \text{ times} = 26 \times 0 = 0$$

From B,

No result determines

From C

No result determines

So, only statement A sufficient to give answer of question.

S60. Ans.(e)

Sol.

From A:

Let cost price = profit percent = x

So,

$$\frac{x \times (100+x)}{100} = 119 \text{ Rs.}$$

$$x^2 + 100x = 11900$$

$$x^2 + 100x - 11900 = 0$$

$$x = 70 \text{ Rs.}$$

From B:

Selling price = 102 Rs.

$$\text{M.P.} \Rightarrow \frac{102}{6} \times 7 = 119 \text{ Rs.}$$

From C:

If M.P. \Rightarrow 119 Rs.

Let cost price = x Rs.

From B and C together:

$$\frac{x}{100} \times \frac{119}{2} = 41.65 \text{ Rs.}$$

$$x = 70 \text{ Rs.}$$

Either only A or B and C together.

S61. Ans.(c)

Sol.

Let, Red balls = x

Blue balls = y

ATQ,

$$2 \times \frac{x}{(x+y)} \times \frac{y}{(x+y-1)} = \frac{1}{2} \dots\dots\dots(i)$$



And,

$$\frac{x \times (x-1)}{(x+y)(x+y-1)} = \frac{3}{20} \dots\dots\dots(ii)$$

Dividing (ii) by (i)

$$\Rightarrow \frac{x-1}{y} = \frac{3}{5}$$

$$\Rightarrow 5x - 5 = 3y \dots(iii)$$

And, from (i)

$$4xy = (x+y)(x+y-1) \dots\dots(iv)$$

From (iii) and (iv)

$$4x \left(\frac{5x-5}{3} \right) = \left[\frac{5x-5+3x}{3} \right] \left[x + \frac{5x-5}{3} - 1 \right]$$

$$\Rightarrow \frac{20x}{3} (x-1) = \left[\frac{8x-5}{3} \right] \left[\frac{8x-8}{3} \right]$$

$$\Rightarrow 60x^2 - 60x = 64x^2 - 64x - 40x + 40$$

$$\Rightarrow -4x^2 + 44x - 40 = 0$$

$$\Rightarrow x^2 - 11x + 10 = 0$$

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

$$\Rightarrow x(x-10) - 1(x-10) = 0$$

$$\Rightarrow x = 1, 10$$

$x = 1$	$x = 10$
$\Rightarrow y = 0$	$\Rightarrow y = 15$

But y can't be zero.

$$\Rightarrow \text{Number of red balls} = 10$$

$$\text{Number of blue balls} = 15$$

$$\text{Required probability} = \frac{{}^{10}C_2 + {}^{10}C_1 \cdot {}^{15}C_1}{{}^{25}C_2}$$

$$= \frac{45 + 150}{300} = \frac{195}{300} = \frac{13}{20}$$



S62. Ans.(b)

Sol. Let, Red balls = x

Blue balls = y

ATQ,

$$2 \times \frac{x}{(x+y)} \times \frac{y}{(x+y-1)} = \frac{1}{2} \dots\dots\dots(i)$$

And,

$$\frac{x \times (x-1)}{(x+y)(x+y-1)} = \frac{3}{20} \dots\dots\dots(ii)$$

Dividing (ii) by (i)

$$\Rightarrow \frac{x-1}{y} = \frac{3}{5}$$

$$\Rightarrow 5x - 5 = 3y \dots(iii)$$

And, from (i)

$$4xy = (x+y)(x+y-1) \dots\dots(iv)$$

From (iii) and (iv)

$$4x \left(\frac{5x-5}{3} \right) = \left[\frac{5x-5+3x}{3} \right] \left[x + \frac{5x-5}{3} - 1 \right]$$

$$\Rightarrow \frac{20x}{3} (x-1) = \left[\frac{8x-5}{3} \right] \left[\frac{8x-8}{3} \right]$$

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$$\Rightarrow 60x^2 - 60x = 64x^2 - 64x - 40x + 40$$

$$\Rightarrow -4x^2 + 44x - 40 = 0$$

$$\Rightarrow x^2 - 11x + 10 = 0$$

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

$$\Rightarrow x(x - 10) - 1(x - 10) = 0$$

$$\Rightarrow x = 1, 10$$

$$x = 1 \quad \left| \quad x = 10\right.$$

$$\Rightarrow y = 0 \quad \left| \quad \Rightarrow y = 15\right.$$

But y can't be zero.

$$\Rightarrow \text{Number of red balls} = 10$$

$$\text{Number of blue balls} = 15$$

$$\text{Required probability} = \frac{{}^{21}C_2}{{}^{25+11}C_2}$$

$$= \frac{21 \times 20}{36 \times 35} = \frac{1}{3}$$

S63. Ans.(d)

Sol.

Let, efficiency of A, B, C and D be 'a', 'b', 'c' and 'd' respectively

$$\text{Total work} = 6b + 6c + 4(a + c) + 2c$$

$$\text{And also, } a = b + c$$

$$\Rightarrow \text{Total work} = 10b + 16c$$

ATQ,

B did $\frac{1}{3}$ of work in 6 days

\Rightarrow B can complete whole work in 18 days

And,

$$(10b + 16c) = 18b$$

$$\Rightarrow 16c = 8b$$

$$\Rightarrow \frac{b}{c} = \frac{2}{1}$$

\Rightarrow 'C' can complete whole work 'X' in 36 days

A can complete whole work 'X' in $\frac{18 \times 36}{18+36} = 12$ day.

D can complete whole work 'X' in $\frac{18}{2} \times 5 = 45$ days.

Ratio of efficiency of A, B, C and D

$$= \frac{1}{12} : \frac{1}{18} : \frac{1}{36} : \frac{1}{45}$$

$$= 15 : 10 : 5 : 4$$

$$\text{Required ratio} = \frac{4 \times 15}{9 \times 10} = \frac{60}{90} = \frac{2}{3}$$



S64. Ans.(b)**Sol.**

Let, efficiency of A, B, C and D be 'a', 'b', 'c' and 'd' respectively

$$\text{Total work} = 6b + 6c + 4(a + c) + 2c$$

$$\text{And also, } a = b + c$$

$$\Rightarrow \text{Total work} = 10b + 16c$$

ATQ,

B did $\frac{1}{3}$ of work in 6 days

\Rightarrow B can complete whole work in 18 days

And,

$$(10b + 16c) = 18b$$

$$\Rightarrow 16c = 8b$$

$$\Rightarrow \frac{b}{c} = \frac{2}{1}$$

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A can complete whole work 'X' in $\frac{18 \times 36}{18 + 36} = 12$ day.

D can complete whole work 'X' in $\frac{18}{2} \times 5 = 45$ days.

Ratio of efficiency of A, B, C and D

$$= \frac{1}{12} : \frac{1}{18} : \frac{1}{36} : \frac{1}{45}$$

$$= 15 : 10 : 5 : 4$$



Let efficiency of A, B, C and D be 15x, 10x, 5x and 4x respectively

$$\text{Total work 'Y'} = (5x + 4x) \times 26$$

$$= 9x \times 26 = 234x$$

'A' can complete work 'Y' in $\frac{234x}{15} = 15.6$ day

S65. Ans.(d)**Sol.**

Let, efficiency of A, B, C and D be 'a', 'b', 'c' and 'd' respectively

$$\text{Total work} = 6b + 6c + 4(a + c) + 2c$$

$$\text{And also, } a = b + c$$

$$\Rightarrow \text{Total work} = 10b + 16c$$

ATQ,

B did $\frac{1}{3}$ of work in 6 days

\Rightarrow B can complete whole work in 18 days

And,

$$(10b + 16c) = 18b$$

$$\Rightarrow 16c = 8b$$

$$\Rightarrow \frac{b}{c} = \frac{2}{1}$$

\Rightarrow 'C' can complete whole work 'X' in 36 days

A can complete whole work 'X' in $\frac{18 \times 36}{18+36} = 12$ day.

D can complete whole work 'X' in $\frac{18}{2} \times 5 = 45$ days.

Ratio of efficiency of A, B, C and D

$$= \frac{1}{12} : \frac{1}{18} : \frac{1}{36} : \frac{1}{45}$$

$$= 15 : 10 : 5 : 4$$

Efficiency of 'E' = $16x$

$$\text{Total work 'Z'} = 16x \times \frac{25}{2} = 200x$$

'A' and 'C' together can complete work 'Z' in

$$= \frac{200x}{(15+5)x} = \frac{200x}{20x} = 10 \text{ days}$$



S66. Ans.(c)

Sol.

Let, marked price of both articles be $600x$

$$\text{S.P. of article X} = 600x \times \frac{72}{100} = 432x$$

$$\text{S.P. of article Y} = 600x \times \frac{85}{100} = 510x$$

ATQ,

$$510x - 432x = 312$$

$$\Rightarrow 78x = 312$$

$$\Rightarrow x = 4$$

$$\text{Cost price of article 'X'} = \frac{432 \times 4}{120} \times 100 = 1440$$

$$\text{Cost price of article 'Y'} = 1520 \times 2 - 1440 = 3040 - 1440 = 1600$$

$$\text{Profit \% earned on selling article Y} = \frac{510 \times 4 - 1600}{1600} \times 100$$

$$= \frac{440}{1600} \times 100 = 27.5\%$$

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S67. Ans.(e)**Sol.**Let M.P. of each article sold by each seller be $800x$

$$\text{Cost price of article Y sold by B} = \frac{800x \times 67.5}{120}$$

$$= 450x$$

$$\text{Cost price of article Y sold by E} = \frac{800x \times 72}{4 \times 100} \times 3$$

$$= 432x$$

$$\text{Cost price of article X sold by C} = \frac{800x \times 85}{125}$$

$$= 544x$$

$$\text{Cost price of article X sold by E} = \frac{800x \times 54}{135}$$

$$= 320x$$

ATQ,

$$(450x + 432x) - 544x - 320x = 216$$

$$882x - 864x = 216$$

$$\Rightarrow x = \frac{216}{18} = 12$$

$$\text{M.P. of each article} = 800 \times 12 = 9600$$

$$\text{Cost price of article Y sold by C} = \frac{9600 \times 76}{160}$$

$$= \text{Rs } 4560$$

S68. Ans.(b)**Sol.**Let M.P. of each article be $400x$

$$\text{Cost price of article X sold by B} = \frac{400x \times 73.5}{168}$$

$$= 175x$$

$$\text{Cost price of article Y sold by D} = \frac{400x \times 63}{120}$$

$$= 210x$$

$$\text{Required ratio} = \frac{175x}{210x} = \frac{5}{6}$$

S69. Ans.(d)**Sol.**Let M.P. of each article = $400x$

$$\text{S.P. of article X sold by E} = \frac{400x \times 54}{100} = 216x$$

$$\text{Cost price of article Y sold by E} = 216x$$

$$\text{Selling price of article Y sold by E} = \frac{400x \times 72}{100}$$

$$= 288x$$

$$\text{Profit \%} = \frac{288x - 216x}{216x} \times 100$$

$$= \frac{72x}{216x} \times 100 = 33\frac{1}{3}\%$$



S70. Ans.(b)**Sol.**Let, M.P. of each article be $400x$

C.P. of article X sold by A = $\frac{400x}{2} = 200x$

S.P of article X sold by A = $200x \times \frac{120}{100}$

$= 240x$

SP of article Y sold of A = $400x \times \frac{85}{100}$

$= 340x$

Let, CP of article Y sold by A = y

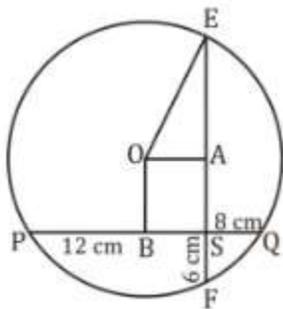
ATQ,

$(200x + y) \times \frac{125}{100} = 240x + 340x$

$(200x + y) = \frac{580x}{5} \times 4$

$\Rightarrow y = 264x$

Required % = $\frac{264x - 240x}{264x} \times 100 = 9\frac{1}{11}\%$

S71. Ans.(a)**Sol. Quantity I:**

As, PQ and EF are two line that intersect at S.

So, $PS \times SQ = ES \times SF$

$12 \times 8 = ES \times 6$

$ES = 16 \text{ cm}$

From center O draw

$OB \perp PQ$ and $OA \perp EF$

So, $PB = BQ = \frac{(12+8)}{2} = 10 \text{ cm}$

$BS = OA = 2 \text{ cm}$

$EF = 16 + 6 = 22 \text{ cm}$

$EA = \frac{22}{2} = 11 \text{ cm}$

In triangle $\triangle OAE$

$$OA^2 + EA^2 = OE^2$$

$$2^2 + 11^2 = OE^2$$

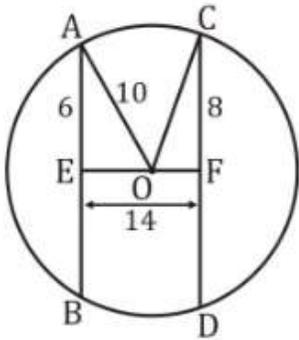
$$OE^2 = 125$$

$$OE = \sqrt{125} = 5\sqrt{5} \text{ cm}$$

$$\begin{aligned} \text{Area of circle} &= \pi r^2 = \pi(5\sqrt{5})^2 \\ &= 125 \times \frac{22}{7} \end{aligned}$$

$$= 392.86 \text{ cm}^2$$

Quantity II:



Let AB and CD are the chord drawn on opposite sides of diameter. Length of CD is 16 cm and length of AB is 12 cm.

ATQ

$$FC = \frac{CD}{2} = \frac{16}{2} = 8 \text{ cm}$$

$$AE = \frac{AB}{2} = \frac{12}{2} = 6 \text{ cm}$$

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

But $AO = OC =$ radius of circle

$$OA^2 = AE^2 + OE^2 = OC^2 = CF^2 + OF^2$$

Let OE and OF be 'a' and 'b' respectively

$$a^2 - b^2 = 8^2 - 6^2 = 28$$

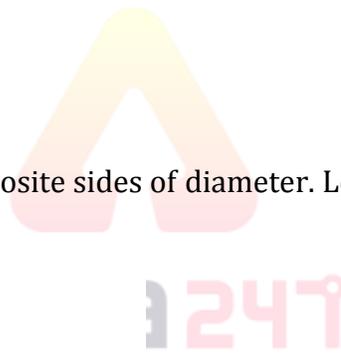
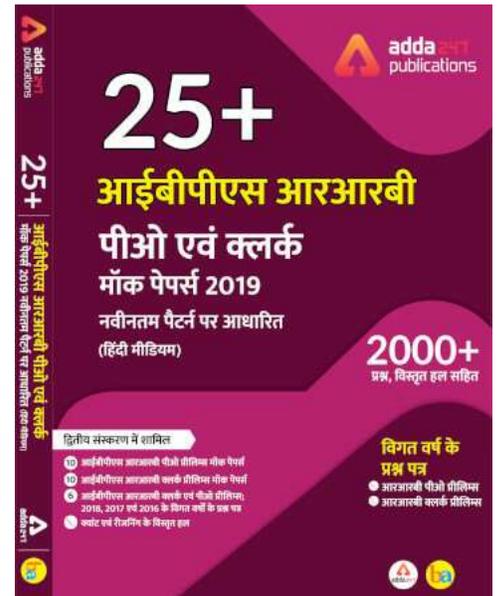
$$\text{And } a + b = 14$$

$$\text{So, } a = 8, b = 6$$

$$\text{Radius of circle} = \sqrt{6^2 + 8^2} = \sqrt{36 + 64} = \sqrt{100} = 10 \text{ cm}$$

$$\text{Area of circle} = \pi(10)^2 = 314.28 \text{ cm}^2$$

Quantity I > Quantity II



S72. Ans.(b)

Sol. Quantity I:

Let cost price is 1000 of 1000 gm. he pays to whole seller \Rightarrow 850 Rs. for 1000 gm.

Effective cost price = 0.85 Rs. per gm.

Now he sells 850 gm. instead of 1000 gm.

Effective cost price of 850 gm. = $0.85 \times 850 = 722.5$

$$\text{Profit}(x) = \frac{1000 - 722.5}{722.5} \times 100 = 38.40 \approx 38\%$$

Quantity II:

Let milkman have \rightarrow q litre of milk

Initially he add \rightarrow 20 litre of water

Sale half Remaining mixture = $\frac{q}{2} + 10$

Again add 20 litre water

So,

$$\frac{\frac{q}{2}}{10+20} = \frac{4}{3}$$

$$\text{Total profit}(y) = \frac{40}{80} \times 100 = 50\%$$

Quantity II > Quantity I

S73. Ans.(d)

Sol. Quantity I:

If B do 40% of work thus A do 60% of work

Ratio of efficiency of A and B = 3 : 2

Total work = $24 \times (3 + 2) = 120$ units

$$\text{Efficiency of C} = \frac{3 \times 125}{100} = \frac{15}{4} \text{ units/day}$$

$$\text{Time taken by C} = \frac{120 \times 4}{15} = 32 \text{ days}$$

Quantity II:

P work for \rightarrow x day

Efficiency \rightarrow x

So,

$$x \times x \Rightarrow 16 \text{ Rs.}$$

$$x \Rightarrow 4 \text{ Rs.}$$

Money earned by P, Q and R

$$\Rightarrow x^2 + (x + 1)^2 + (x + 2)^2 = 4^2 + 5^2 + 6^2 \Rightarrow 77 \text{ Rs.}$$

Quantity II > Quantity I

S74. Ans.(b)**Sol.**

Time ratio between train A and train B = 1.5 : 1

So speed ratio between train A and train B is = 1 : 1.5 or 2 : 3

Let speed of train A = $2x$ km/hrSpeed of train B = $3x$ km/hrRelative speed = $3x - 2x = x$ km/hr

Distance travel by train A in 30 m

$$\Rightarrow \frac{2x}{2} = x \text{ km}$$

Train B cross train A $\Rightarrow \frac{x}{x} = 1$ hour

So,

Train B cross train C $\Rightarrow 1 + 1.5 = 2.5$ hourLet speed of train C = y km/h

ATQ

$$2.5 \times 3x = 3y$$

$$x : y \Rightarrow 2 : 5$$

Ratio of speed of A, B and C

$$4 : 6 : 5$$

Speed of train A = 80 km/hr

$$\text{Speed of train C} = \frac{80}{4} \times 5 = 100 \text{ km/hr}$$

**S75. Ans.(a)****Sol.**

Time ratio between train A and train B = 1.5 : 1

So speed ratio between train A and train B is = 1 : 1.5 or 2 : 3

Let speed of train A = $2x$ km/hrSpeed of train B = $3x$ km/hrRelative speed = $3x - 2x = x$ km/hr

Distance travel by train A in 30 m

$$\Rightarrow \frac{2x}{2} = x \text{ km}$$

Train B cross train A $\Rightarrow \frac{x}{x} = 1$ hour

So,

Train B cross train C $\Rightarrow 1 + 1.5 = 2.5$ hourLet speed of train C = y km/h

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ATQ

$$2.5 \times 3x = 3y$$

$$x : y \Rightarrow 2 : 5$$

Ratio of speed of A, B and C

$$4 : 6 : 5$$

Let speed of train A = $4x$ km/hr

So speed of train C = $5x$ km/hr

$$\text{Required \%} = \frac{(2 \times 4x - 5x)}{5x} \times 100 = 60\%$$

S76. Ans.(a)

Sol. Let Initial investment of C = x

\Rightarrow Initial investment of A = $1.5x$

Ratio between A and C's profit.

$$= \frac{1.5x \times 3 + (1.5x + 3000) \times 3 + (1.5x + 8000) \times 3 + (1.5x + 16000) \times 3}{x \times 3 + (x + 4000) \times 3 + (x + 7000) \times 3 + (x + 12000)}$$

$$= \frac{18x + 81000}{10x + 45000}$$

Let, A's profit and C's profit be $(18xz + 81000z)$ and $(10xz + 45000z)$ respectively.

ATQ,

$$18xz + 81000z - 10xz - 45000z \rightarrow 3120$$

$$8xz + 36000z \rightarrow 3120$$

$$2xz + 9000z \rightarrow 780$$

$$\text{C's profit} = 10xz + 45000z \rightarrow 780 \times 5 = 3900$$

S77. Ans.(c)

Sol.

Let initial investment of both B and D is Rs x

ATQ,

$$\frac{6x + 3 \times 4000}{6x + 3 \times 8000} = \frac{18750}{22500} = \frac{5}{6}$$

$$\Rightarrow 36x + 72,000 = 30x + 1,20,000$$

$$6x = 48,000$$

$$x = 8000$$

S78. Ans.(b)

Sol. Ratio between A and B's share in profit

$$= \frac{12 \times 12,000 + 9 \times 3000 + 6 \times 5000 + 3 \times 8000}{12 \times 10,000 + 9 \times 4000 + 6 \times 6000 + 3 \times 8000}$$

$$= \frac{2,25,000}{2,16,000} = \frac{25}{24}$$

$$\text{Required \%} = \frac{25-24}{25} \times 100$$

$$= 4\%$$

S79. Ans.(d)**Sol.** Let Initial investment of C = 9x

⇒ Initial investment of D = 20x

Ratio between C and D's profit.

$$\frac{9x \times 3 + (9x + 4000) \times 3 + (9x + 7000) \times 3 + (9x + 12000)}{20x \times 3 + (20x + 8000) \times 3 + (20x + 13000) \times 3} = \frac{5}{9}$$

$$\Rightarrow \frac{90x + 45,000}{180x + 63000} = \frac{5}{9}$$

$$\Rightarrow 9 \times (90x + 45,000) = 5 \times (180x + 63000)$$

$$\Rightarrow 810x + 4,05,000 = 900x + 3,15,000$$

$$\Rightarrow 4,05,000 - 3,15,000 = 900x - 810x$$

$$\Rightarrow x = \frac{90,000}{90} = 1000$$

Amount invested by D initially = 20 × 1000 = 20,000

Total investment of D after 6 months of starting of business = 20,000 + 8000 + 5000 = 33,000

S80. Ans.(c)**Sol.** Let total profit = Rs. 100x

Out of total profit 20% is given to 'B' and remaining is distributed between B and E such that total share of B in profit is same total share of E in profit

E's share in profit = 50x

B's share in profit = 50x

Ratio of investment of B and E = (50x-20x) : 50x = 3 : 5

Let Initial investment of E = Rs. 'x'

Ratio between B and E's profit.

$$\frac{6,000 \times 3 + (6,000 + 4,000) \times 3 + (10,000 + 6,000) \times 3 + (16,000 + 8,000) \times 2}{x \times 3 + (x + 5000) \times 3 + (x + 9000) \times 3 + (x + 11000) \times 3} = \frac{3}{5}$$

$$\frac{1,44,000}{12x + 75000} = \frac{3}{5}$$

$$\Rightarrow 2,40,000 = 12x + 75,000$$

$$12x = 1,65,000 \Rightarrow x = 13,750$$

English Language - Solutions**S81. Ans.(c)****Sol.** Going through the passage, we come across the issues PSU banks are facing.

In Paragraph 2, it has been mentioned that appointment of top officials has not been done since long time, which signifies the poor supervision of the activities of banks.

In paragraph 3, the inability of banks to resolve the bad assets has been discussed for which asset reconstruction company has been decided to form.

In paragraph 4, The need for governance reforms has been discussed.

Whereas, Sentence (II) is irrelevant with respect to the passage.

Hence option (c) is the most appropriate choice.

S82. Ans.(a)

Sol. We can assert from paragraph 3 that formation of a government owned asset reconstruction company is detrimental since, that the government is not in the position to provide significant amount of capital to resolve the bad assets.

This proves the fidelity of option (a).

Refer to the lines of 3rd paragraph “The basic problem will be one of valuation of stressed assets. For instance, if they are transferred at par and the resolution is left to a government-owned ARC, it could end up creating more complications in the system. Also, the ARC will need a significant amount of capital, which the government is not in a position to provide.”

S83. Ans.(c)

Sol. Here (paragraph 4 and paragraph 5) the emphasis has been laid on the governance reforms needed by the banks. By initiating broad reforms, government can bring transformation in the current situation of banks. Thus, we can easily point out that sentence (c) forms a connection with paragraph 4 and hence is the correct answer choice.

S84. Ans.(e)

Sol. All the three objectives of the government have been mentioned in the passage. For expression (I) refer to the 1st paragraph “Although the government is in the process of recapitalizing state-run banks, it is likely that the current Rs 2.11 trillion PSU bank recapitalization plan will not be sufficient to put the PSU banks back on track.”

For the 2nd objective, refer to the 2nd paragraph, “A number of present and former senior executives are under investigation for past transactions. The government must ensure that investigations don’t become a witch-hunt, and that the issue is handled with utmost care.”

While the 3rd objective to be focused by banks is mentioned in 2nd paragraph “However, it is also likely that the government will find it difficult to attract talent due to the fear of investigative agencies among bankers.” Since, all three areas of government that requires focus have been illustrated in the passage, option (e) becomes the right choice.

S85. Ans.(c)

Sol. ‘Mulling’ is a verb which means think about (something) carefully, especially before making a decision or reaching a conclusion. It has been used in paragraph 3 indicating the deep thought given on the formation of an asset reconstruction committee for resolving the bad loans. This suggests that sentence (c) is the most appropriate choice. Other sentences are not related to the word ‘mulling’.

Refer the lines “The government is now mulling the formation of an asset reconstruction company(ARC) for faster resolution of bad loans and has constituted a committee to make recommendations in this regard.”

S86. Ans.(b)

Sol. Here if we go through the passage, we come to the conclusion that the proposals of protectionist to strengthen the economy have been discussed in the paragraph.

Sentence (II) has been discussed in paragraph 1.

Hence option (b) is the correct choice.

“The proposition of the protectionist camp is that India should adopt a preferential approach towards strategic government procurements in the digital industries.”

Statement (III) is incorrect as there is no such proposal as it was on this ground they want Foreign firms to get a lesser advantage

S87. Ans.(c)

Sol. We can conclude from paragraph 2 that low innovation rate of India is the reason behind India's low share of global value chains. Global Value Chain refers to the production of a good or service and its global level supply, distribution and posts sales activities.

Refer the lines "Many companies in the information technology (IT) and IT-enabled services space are now struggling to achieve this objective through outmoded cost-arbitrage-based business models. Ironically, some of them, unable to keep pace with innovation, are now asking for protection."

Sentence (a) and (b) are irrelevant in the context of the passage.

Hence option (c) is the correct answer choice.

S88. Ans.(d)

Sol. Refer the third paragraph in which it has mentioned the factors which India is facing in order to bring public- private partnership to transform the current condition of India. As public sector lacks trust on private enterprises and are negligent to adopt this reform, public private partnership is found difficult to implement.

Hence option (d) is the most appropriate choice.

Refer the lines "However, this potentially meaningful modality of deep public-private partnerships has been throttled by reticence on part of the unions representing public sector enterprises, as well as an all-pervasive lack of trust in the private sector."

S89. Ans.(b)

Sol. It has been mentioned in paragraph 4 that according to protectionists India should mandate localization of all data owned by foreign companies, which proves fidelity of option (b).

All the other sentences cannot be inferred from paragraph 4.

Refer the lines from paragraph 4 "However, the protectionist camp goes on to offer a tenuous extension of this hypothesis: India should mandate localization of all data owned by foreign companies, again inspired by China."

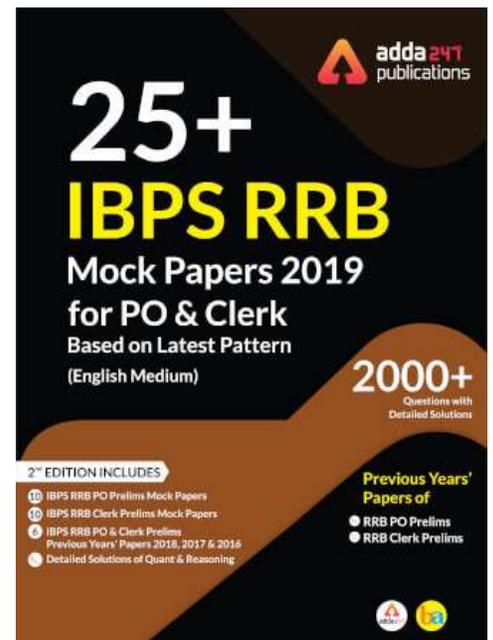
S90. Ans.(b)

Sol. "high-volume and low-value" mentioned in paragraph 5 in which 'high volume' refers to the global flow of data services and 'low- value' refers to the limited earnings from domestic data market. Hence, we can infer that option (b) is the most appropriate choice.

Refer the lines "Despite large volumes, the potential for earning large value from the domestic data market remains limited. Low average revenues per user in telecom and low transaction values in digital payments are indicative of this "high-volume and low-value" paradigm."

S91. Ans.(d)

Sol. Among the given options, sentence (b) is grammatically incorrect as "contributes" should be used in place of "contribute". Sentences (a) and (c) are contextually different and structurally incorrect. They are not inferring the same meaning as per the demand of the question. Hence only option (d) forms the correct sentence which follows the sentences given in the question both grammatically and contextually



S92. Ans.(d)

Sol. The first and the third part of the sentence contain errors. To make the first part grammatically correct, replace 'reform' with 'reforms'. It is to be noted that the general rule for the phrase 'one of the' is "One of the + PLURAL NOUN + that/who etc. + SINGULAR/PLURAL VERB". Moreover, in the third part of the sentence, "had been" should be replaced with "has been" since, "Had been" means something began in the past, lasted for some time, then ended. This is entirely in the past while, both "Has been" and "Have been" mean something began in the past and has lasted into the present time. Drawing a hint from the phrase "the government in recent years", it can be understood that a reform undertaken by the government has been beneficial for (DBT) from past few years and still continues to be beneficial. However, part (II) of the sentence is free from all grammatical errors. Hence, option (d) becomes the most suitable answer choice.

S93. Ans.(c)

Sol. The phrase "**hit the nail on the head**" means to be accurately right about something or find the exact answer. Among the given statements, both sentences (II) and (III) express the meaning which complies with the meaning of the phrase and at the same time they make sure that the actual meaning of the sentence remains intact. Statement (I) is irrelevant as it alters the meaning of the sentence. Hence (c) is the correct option.

S94. Ans.(d)

Sol. 'foresight, ameliorate' is the pair of words that fits in the two sentences to make both the sentences grammatically and contextually complete. Hence, option (d) is the most appropriate choice.

Foresight means the ability to predict what will happen or be needed in the future.

Ameliorate means make (something bad or unsatisfactory) better.

Prodigal means spending money or using resources freely and recklessly; wastefully extravagant

Vitiate means spoil or impair the quality or efficiency of.

Improvvidence means the quality or state of not foreseeing and providing for the future

Remediate means to settle (disputes, strikes, etc.) as an intermediary between parties; reconcile.

Blemish means a small mark or flaw which spoils the appearance of something.

S95. Ans.(b)

Sol. Read the paragraphs carefully. Among the given paragraphs, only the (III) paragraph concludes the given inference. It is describing about the production of more electric vehicles for private as well as for public transport, to reduce the increasing pollution. However, paragraph (I) has given emphasis on the adoption of alternate mobility technologies. It has also suggested that shared mobility would further help to reduce pollution. While paragraph (II) is suggesting ways that would help in reducing pollution such as presenting incentives, banning polluting technologies and improving infrastructure. It is to be noted that in paragraph (I) and (II) the alternate technology to reduce pollution has not been mentioned whereas, in paragraph (III) the alternate technology of electric vehicles is mentioned. Thus, option (b) becomes the most viable answer choice.

S96. Ans.(b)

Sol. Among the given options, sentence (c) is grammatically incorrect as 'are' should be used in place of 'is' because of the use of 'forces'. Sentences (a) and (d) are contextually different and structurally incorrect. They are 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.

S97. Ans.(b)

Sol. There is an error in the second part of the sentence. To make the sentence grammatically correct, replace, the auxiliary verb 'were' with 'was', as the subject [money] associated with verb is an uncountable noun. 'Money' is an uncountable noun. This is because we cannot say, "1 money, 2 money, etc." It's true, that money can be counted in the sense as, "1 rupee, 2 rupees, etc." But we are counting 'rupees', not 'money'. Therefore, 'rupees' makes money countable, so 'rupees' is a countable noun while 'money' is uncountable. Moreover, it is to be noted that with an uncountable noun the verb associated is always singular. However, part (I) and (III) are devoid of all errors, hence, option (b) becomes the most viable answer choice.

S98. Ans.(d)

Sol. In the context of this sentence, the phrase “**countless tales of AI-induced woe**” means many movies which displayed the pain and sorrow that have been caused because of AI. Among the given statements, both sentences (I) and (II) express the meaning which complies with the meaning of the phrase and at the same time they make sure that the actual meaning of the sentence remains intact. Statement (III) is irrelevant as it alters the meaning of the sentence. Hence (d) is the correct option.

S99. Ans.(b)

Sol. 'persistent, ostentatiously' is the pair of words that fits in the two sentences to make both the sentences grammatically and contextually complete. Hence, option (b) is the most appropriate choice.

Persistent means continuing firmly or obstinately in an opinion or course of action in spite of difficulty or opposition.

Ostentatiously means in a pretentious or showy way designed to impress.

Relentless means unceasingly intense.

Modestly means in an unassuming manner; without vanity or arrogance.

Faltering means losing strength or momentum.

Vacillating means wavering between different opinions or actions; irresolute.

S100. Ans.(c)

Sol. After reading the paragraphs carefully, it can be understood that the paragraphs (I) and (III) depict the given inference. Paragraph (I) has mentioned the release of model tender document of NHPS which states its concerns regarding the implementation of the scheme in such a vast scale. Moreover, it also expresses its agitation towards the private hospitals which may receive undue benefits from the schemes. Paragraph (III) is describing about the issue mentioned in the model tender document of NHPS of the requisite of pre-authorization to perform on heart ailments and cancer from the NHPS's implementation support agency. Since, all three paragraphs mention the questions raised in The Model Tender Document for The Selection of Implementing Agencies For the NHPS, option (d) becomes the most suitable answer choice.

S101. Ans.(c)

Sol. Among the given options, sentence (d) is grammatically incorrect. Sentences (a) and (b) are contextually different and structurally incorrect. Option (b) is grammatically incorrect also as 'disentangled' should be used in place of disentangles. They are not inferring the same meaning as per the demand of the question. Hence only option (c) forms the correct sentence which follows the sentences given in the question both grammatically and contextually.

S102. Ans.(c)

Sol. The error lies in the third part of the sentence. It is to be noted that (a) little and (a) few are quantifiers meaning 'some'. Little and few have negative meanings. They are used to mean 'not as much as may be expected or wished for'. 'a little' is used with singular uncountable nouns while 'a few' with plural countable nouns. Since the noun associated with the quantifier is an uncountable noun [extra spring in our step and sparkle in our eye], the quantifier to be used should be 'a little'. However, part (I) and (II) are grammatically correct therefore, option (c) becomes the most viable answer choice.

S103. Ans.(e)

Sol. 'egregious, arduous' is the pair of words that fits in the two sentences to make both the sentences grammatically and contextually complete. Hence, option (e) is the most appropriate choice.

Egregious means shocking.

Arduous means difficult and tiring.

Brutal means savagely violent.

Facile means ignoring the true complexities of an issue; superficial

Unobtrusive means not conspicuous or attracting attention.

Inconspicuous means not clearly visible or attracting attention.

Superficial means appearing to be true or real only until examined more closely.

S104. Ans.(a)

Sol. Among the given paragraphs, paragraph (I) and (II) are deducing the given inference in bold. The inference is stating that the latest alterations made in NCERT books didn't follow the revision process like it used to earlier. Though being an autonomous body, this incident shows the weakness of NCERT. Drawing a hint from the sentence of paragraph (I) "The names that figure on the books as "textbook development committees" remain the same, though most of them have not been involved in the insertion/revision process", the given inference can be concluded. Moreover, paragraph (II) is also questioning these alterations in a critical manner. This can be understood from the sentence "This, in turn, raises questions about why the current changes have been made as they have". While, the sentence "...in an autonomous body that has shown its ability to take an imaginative course while generating a discursive relationship with all those involved in education, without rendering itself an arm of the state" expresses that NCERT has failed to correctly implement the revision process in spite of being an autonomous body. However, paragraph (III) fails to depict the given inference as it is merely describing the alterations made by NCERT in the textbooks. Thus, option (a) becomes the most viable answer choice.

S105. Ans.(c)

Sol. 'imperative, consent' is the pair of words that fits in the two sentences to make both the sentences grammatically and contextually complete. Hence, option (c) is the most appropriate choice.

Imperative means of vital importance; crucial

Consent means permission for something to happen or agreement to do something.

Dispensable means able to be replaced or done without; superfluous.

Revocation means the official cancellation of a decree, decision, or promise.

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Injunction means an authoritative warning or order.

Discretionary means available for use at the discretion of the user.

Deterrence means the action of discouraging an action or event through instilling doubt or fear of the consequences.

Inconsequential means not important or significant.

Embargo means an official ban on any activity.

S106. Ans (c)

Sol. Among the given options, sentences (b) and (d) are grammatically incorrect. In sentence (b) “enacted” should be used in place of “enact”. In sentence (d) “belonging” should be used in place of “belonged”. Sentence (a) is contextually different and structurally incorrect. It is not inferring the same meaning as per the demand of the question. Hence only option (c) forms the correct sentence which follows the sentences given in the question both grammatically and contextually.

S107. Ans.(d)

Sol. The error lies in part (I) and part (II) of the sentence. It is to be noted that if the noun is modified by an adjective, an article is placed before the adjective. Here the article which is used is “the” which should be replaced by “a”. Moreover, to make the second part of the sentence contextually correct, replace ‘to’ with ‘about’. As part (III) of the sentence is error free, option (d) becomes the most suitable answer choice

S108. Ans.(c)

Sol. The given inference in bold states that with the help of lateral entry at senior levels of bureaucracy better policy making and implementation can be done. After reading the paragraphs, it is inferential that only paragraph (II) provides the given inference since, it is describing about the entry of new and talented personnel at joint-secretary levels which is vital for policy-making and implementation of government schemes. However, paragraph (I) is describing about selecting employees in IAS scheme who becomes versatile while serving different departments which is irrelevant in the context of the inference. In addition to, paragraph (III) is describing about the proposal of selecting process for lateral entry to be clear and appropriate is still unheard. Thus, the given inference can be precisely deduced by only paragraph (II), hence, option (c) becomes the most suitable answer choice.

S109. Ans.(a)

Sol. ‘quintessential, condemned’ is the pair of words that fits in the two sentences to make both the sentences grammatically and contextually complete. Hence, option (a) is the most appropriate choice.

Quintessential means representing the most perfect or typical example of a quality or class.

Condemned means express complete disapproval of

Substandard means below the usual or required standard.

Endorsed means declare one's public approval or support of.

Atrocious means horrifyingly wicked.

Eulogized means praise highly in speech or writing.

Consecrated means make or declare (something, typically a church) sacred

Venerated means regard with great respect.

S110. Ans.(e)

Sol. The given inference is stating that SBI will not manage the oil payments of Iran. After reading the paragraphs it can be understood that this inference is not expounded in any of them. Paragraph (I) has illustrated the exports data of oil of Iran. While, paragraph (II) has mentioned India's plan to spend foreign capital on energy resources as it might become the third largest energy consumer. Moreover, paragraph (III) has merely provided the imports data of oil of India. Therefore, option (e) becomes the most suitable answer choice.

S111. Ans (a)

Sol. Among the given options, sentences (b) and (c) are grammatically incorrect. Sentence (d) is contextually different and structurally incorrect. "For" is used to show the duration and last week is a "point of time" therefore "since" should be used. It is not inferring the same meaning as per the demand of the question. Hence only option (a) forms the correct sentence which follows the sentences given in the question both grammatically and contextually.

S112. Ans.(e)

Sol. All the parts of the given sentence are grammatically correct and contextually meaningful hence, do not require any corrections. Therefore, option (e) becomes the most viable answer choice.

S113. Ans.(c)

Sol. In the context of this sentence, the phrase "a voice crying in the wilderness" means to express an idea that is not accepted by others or to say something that is not acceptable by a group or society. Among the given statements, both sentences (I) and (II) express the meaning which complies with the meaning of the phrase and at the same time they make sure that the actual meaning of the sentence remains intact. Statement (III) is irrelevant as it alters the meaning of the sentence. Hence (c) is the correct option.

S114. Ans.(e)

Sol. The paragraph after the rearrangement is describing about the position of china's currency i.e., yuan in the global level in a comparison with dollars. It further describes about china's intention to become the preferred currency of trade among many countries. However, sentence (G) is describing about the India's approach to pursue internationalization of its currency in a comparison with yuan. Therefore, the logical sequence of the coherent sentences is AECBDF. Thus, with the elimination of statement (G), option (e) becomes the most viable answer choice.

S115. Ans.(d)

Sol. The first given sentence provides a clue for the theme of the paragraph which is about the new legislative powers desired by Urjit patel to regulate public sector banks. Following the idea, statement (D) and (E) forms a logical pair, which should be followed by the pair of statements (B) and (F). Moreover, statements (C) expresses the conclusion for issue, which completely satisfies the criterion for the last statement. Thus, considering statement (A) "The RBI governor Urjit Patel has sought more legislative powers to effectively regulate state-owned banks" is the first sentence of the coherent paragraph the correct sequence of other sentences after rearrangement is DEBFC. Hence, option (d) is the most suitable answer choice.

General Awareness - Solutions

S116. Ans.(d)

Sol. Acting as note issuing authority, bankers' bank and banker to the government is the main functions of the Reserve Bank of India.

S117. Ans.(b)

Sol. Former Sri Lanka captain Kumar Sangakkara has been appointed as the first non-British president of the Marylebone Cricket club.

S118. Ans.(a)

Sol. Public Debt Office of RBI is a central depository for all types of Government securities except Treasury Bills.

S119. Ans.(b)

Sol. 5th Asia Pacific Broadcasting Union (ABU) Media Summit on Climate Action and Disaster Preparedness began in Kathmandu. The theme of the two-day summit is "Media solutions for Sustainable Future: Saving Lives, Building Resilient Communities".

S120. Ans.(d)

Sol. Both I and III.

S121. Ans.(c)

Sol. Senior IAS officer Dilip Kumar was appointed as the Officer on Special Duty (OSD) in the office of Lokpal.

S122. Ans.(a)

Sol. LAF stands for Liquidity Adjustment Facility.

S123. Ans.(c)

Sol. Japan's Emperor Akihito has declared his abdication in a historic ceremony at the Imperial Palace in Tokyo.

S124. Ans.(c)

Sol. Savings bank interest rate decided by RBI. But sometimes commercial bank change this interest rate.

S125. Ans.(b)

Sol. Inaugural issue of world's first exclusive women's cricket magazine 'Criczone' was released with Indian team vice-captain Smriti Mandhana featuring as the cover story. It is a one-stop solution, exclusively dedicated to providing updates, articles, news, interviews, etc. from the world of women's cricket. Publisher of the magazine is Yash Lahoti.

S126. Ans.(b)

Sol. Repo operations therefore inject liquidity into the system. Reverse repo operation is when RBI borrows money from banks by lending securities. The interest rate paid by RBI in this case is called the reverse repo rate. Reverse repo operation therefore absorbs the liquidity in the system.

S127. Ans.(b)

Sol. NASA's Cassini spacecraft, scientists have found that Saturn's largest moon Titan has small liquid lakes that run more than 100 metres deep, perched atop hills and filled with methane.

S128. Ans.(d)

Sol. All of the above

S129. Ans.(b)

Sol. Richard Powers has been honoured with the 2019 Pulitzer Prize in fiction category for his innovative novel 'The Overstory', which shows us the world through the perspective of nature.

S130. Ans.(b)

Sol. Basic Statistical Return (BSR) System. The BSR system was introduced in December 1972 following the recommendation of the Committee on Banking Statistics adapting from the erstwhile data reporting system called Uniform Balance Book (UBB).

S131. Ans.(d)

Sol. The International Monetary Fund (IMF) and the World Bank have launched a crypto token called "Learning Coin" to better understand how blockchain technology works.

S132. Ans.(b)

Sol. Initially, the proportional reserve system was adopted in India. Later on, India adopted the minimum reserve system and is still continuing with this system of note issue. The entire issue of currency notes is subjected to the regulations framed in the RBI Act, 1935.

S133. Ans.(c)

Sol. India has dropped two places on a global press freedom index to be ranked 140th out of 180 countries in the annual Reporters Without Borders analysis released, with the lead up to the ongoing Indian general elections flagged as a particularly dangerous time for journalists.

The World Press Freedom Index 2019', topped by Norway, finds an increased sense of hostility towards journalists across the world, with violent attacks in India leading to at least six Indian journalists being killed in the line of their work last year.

S134. Ans.(c)

Sol. When Bank Rate is increased by RBI, the borrowing costs of the banks increase which, in return, reduce the supply of money in the market. Additionally, when the unemployment rate within a country increases, the central bank decreases the bank rate so that individuals can get loan at a reduced rate.

S135. Ans.(b)

Sol. Volodymyr Oleksandrovych Zelensky is a Ukrainian politician, screenwriter, actor, comedian, and director serving as the 6th and incumbent President of Ukraine since 20 May 2019.

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S136. Ans.(c)

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S137. Ans.(a)

Sol. India and Maldives signed an agreement on the exemption from visa requirement for holders of diplomatic and official passports.

S138. Ans.(b)

Sol. The mission of the Organisation for Economic Co-operation and Development (OECD) is to promote policies that will improve the economic and social well-being of people around the world.

S139. Ans.(c)

Sol. Microsoft has partnered with The Ministry of Housing and Urban Affairs (MoHUA) to promote its Project 'Sangam' which is developed to accelerate Swachh Bharat Mission (SBM) in India.

S140. Ans.(c)

Sol. Fitch Ratings cut India's economic growth forecast for the current financial year starting 01st April 2019, to 6.8% from its previous estimate of 7%, on weaker than expected momentum in the economy.

S141. Ans.(b)

Sol. Journalist and writer Raghu Karnad won the \$165,000 Windham-Campbell Prize in the non-fiction category for his debut book, The Farthest Field: An Indian Story Of The Second World War.

S142. Ans.(c)

Sol. Asian Development Bank (ADB) has inked an agreement to invest USD 50 million in solar energy project developer Avaada Energy Pvt Ltd to help the company scale up rapidly.

S143. Ans.(d)

Sol. Capital:-Hanoi, Currency:- Dong

S144. Ans.(d)

Sol. State-run power giant National Thermal Power Corporation has inked a term-loan agreement with Canara Bank to raise Rs 2,000 crore, which would be used to part finance its capital expenditure. The loan has a door to door tenure of 15 years and will be utilised to part finance the capital expenditure of the NTPC.

S145. Ans.(c)

Sol. RBL Bank has partnered with credit profiler CreditVidya to improve the lender's customer experience.

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S146. Ans.(a)

Sol. John Singleton, a versatile director who made a splash with "Boyz n the Hood" and went on to a variety of projects -- including "2 Fast 2 Furious" -- has died after suffering a stroke. He was 51.

S147. Ans.(b)

Sol. Mirzapur is a city of Uttar Pradesh state, India. It is situated on the Ganges (Ganga) River.

S148. Ans.(a)

Sol. DBS Banks is a multinational banking and financial services corporation headquartered in Marina Bay, Singapore. The company was known as The Development Bank of Singapore Limited. The bank was set up by the Government of Singapore in July 1968 to take over the industrial financing activities from the Economic Development Board.

S149. Ans.(a)

Sol. A dance form called "Raut Nacha" is known to be mainly performed by the "Yadava" clan (descendants of Lord Krishna) in Central India. This essentially "Lord Krishna dedicated" dance form has originated from the state of Chhattisgarh. This dance is also said to closely resemble the "Ras Leela" which is considered to be the most popular Lord Krishna dance. Furthermore, this dance is performed usually after Diwali for about a week. In addition, it has been essentially created to celebrate the triumph of "good over evil".

S150. Ans.(d)

Sol. The Saptak Annual Festival of Music is an annual thirteen-day Indian classical music festival held in Ahmedabad, Gujarat.

S151. Ans.(c)

Sol. Prathama Bank is the First Regional Rural Bank of India, sponsored by Syndicate Bank established on 2nd October, 1975, with its Head Office at Moradabad in accordance with Regional Rural Bank Ordinance 1975 issued on 26th September, 1975.

S152. Ans.(e)

Sol. Talcher Super Thermal Power Station or NTPC Talcher Kaniha, located in the Angul district of Odisha, is a 3,000MW coal-fired power plant owned and operated by NTPC. The power station currently ranks as the fourth largest operational thermal power plant in India.

S153. Ans.(b)

Sol. Manas National Park or Manas Wildlife Sanctuary is a national park, UNESCO Natural World Heritage site, a Project Tiger reserve, an elephant reserve and a biosphere reserve in Assam. The name of the park is originated from the Manas River, which is named after the serpent goddess Manasa. The Manas river is a major tributary of Brahmaputra River, which passes through the heart of the national park.

S154. Ans.(a)

Sol. World Day for Safety and Health at Work is observed every year on 28 April to promote safety and health in the workplace and those who have died from work related injury or illness at work place, Worker's Memorial Day honours them.

S155. Ans.(d)

Sol. Minister of state for Culture (I/C), Dr Mahesh Sharma, released 3 books: 'Jewellery', 'Ghats of Banaras' and 'Untold Story of Broadcasting', at IGNCA (Indira Gandhi National Centre for the Arts), in New Delhi.

The Authors of the books are as follows:

1. 'Jewellery' was written by Dr Gulab Kothari.
2. 'Ghats of Banaras' was written by Dr Sachidanand Joshi and
3. 'Untold Story of Broadcasting' was written by Dr Gautam Chatterjee.

