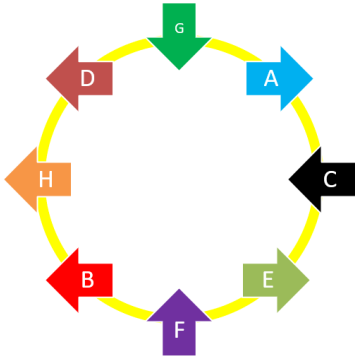


Solutions

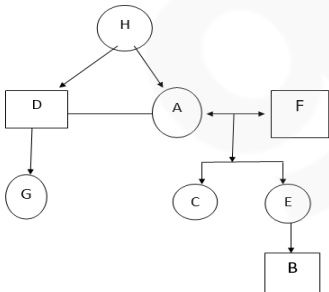
1. Ans. D.



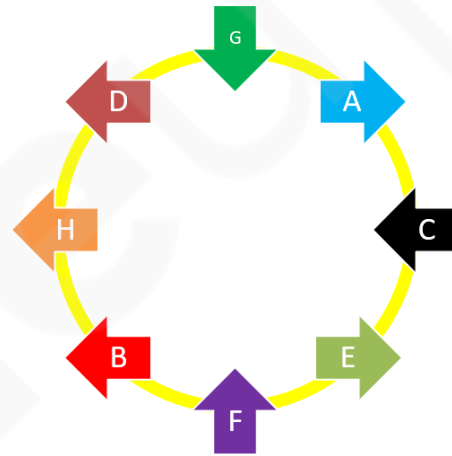
Eight family members A, B, C, D, E, F, G and H are sitting around a circular table with equal distance between them but not necessarily in the same order. Some of them are facing the centre with some face outside i.e. opposite to centre. C sits second to the right of F, F faces the centre. A is a mother of C. Only two people sit between C and B i.e either form C's right or C's left. D's Daughter, G sits second to the right of C. No female is an immediate neighbour of H. A's mother H sits to the immediate right of B. G and B face opposite direction. Immediate neighbour of G face the same direction. C is the sister of E. F is father of E. Only three people sit between A's Brother, D and E. Neither D nor A is an immediate neighbour of F. E sits second to the right of A. E is the mother of B. Both H and E face a direction opposite to that of C. C is not an immediate neighbour of A's husband.

Conclusion

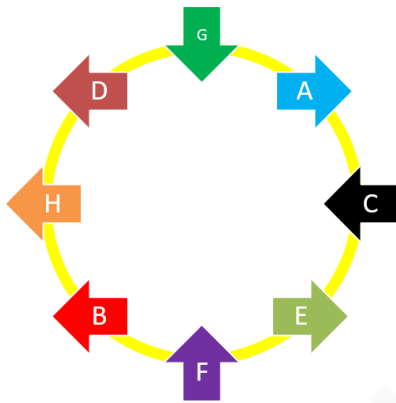
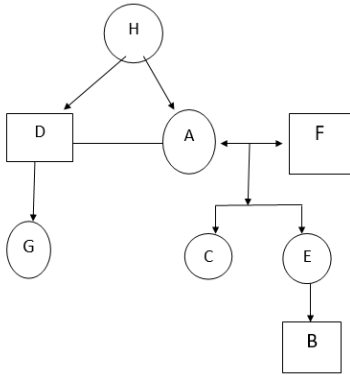
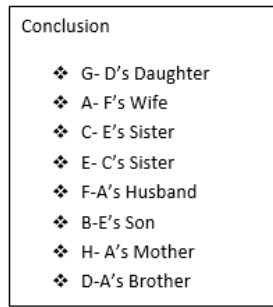
- ❖ G- D's Daughter
- ❖ A- F's Wife
- ❖ C- E's Sister
- ❖ E- C's Sister
- ❖ F-A's Husband
- ❖ B-E's Son
- ❖ H- A's Mother
- ❖ D-A's Brother



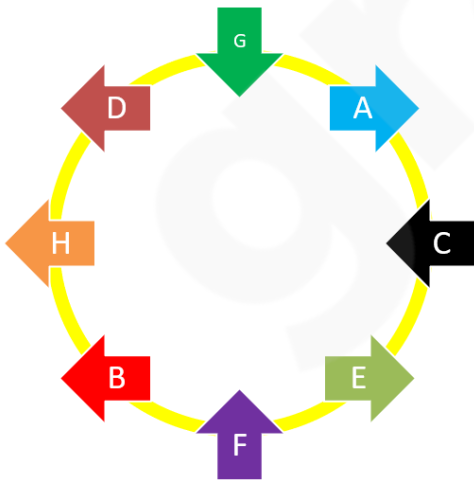
2. Ans. D.



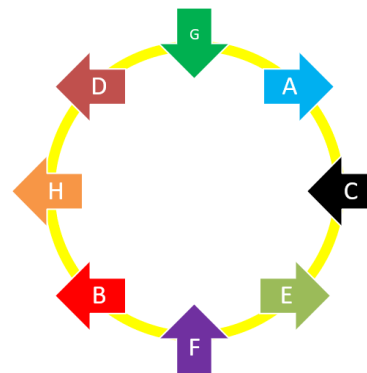
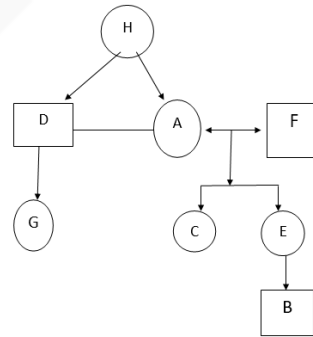
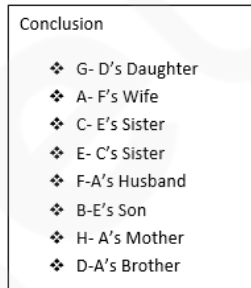
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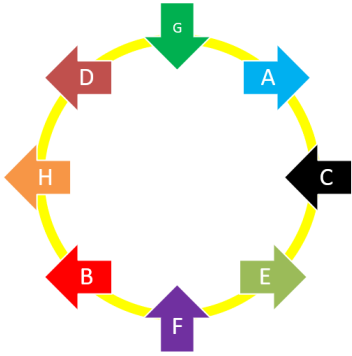
3. Ans. D.



Eight family members A, B, C, D, E, F, G and H are sitting around a circular table with equal distance between them but not necessarily in the same order. Some of them are facing the centre with some face outside i.e. opposite to centre. C sits second to the right of F, F faces the centre. A is a mother of C. Only two people sit between C and B i.e either form C's right or C's left. D's Daughter, G sits second to the right of C. No female is an immediate neighbour of H. A's mother H sits to the immediate right of B. G and B face opposite direction. Immediate neighbour of G face the same direction. C is the sister of E. F is father of E. Only three people sit between A's Brother, D and E. Neither D nor A is an immediate neighbour of F. E sits second to the right of A. E is the mother of B. Both H and E face a direction opposite to that of C. C is not an immediate neighbour of A's husband.



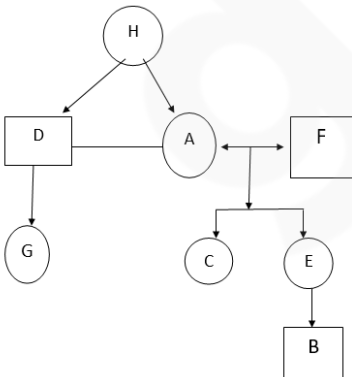
4. Ans. B.



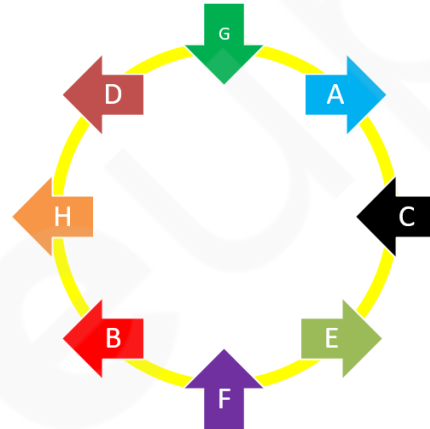
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Conclusion

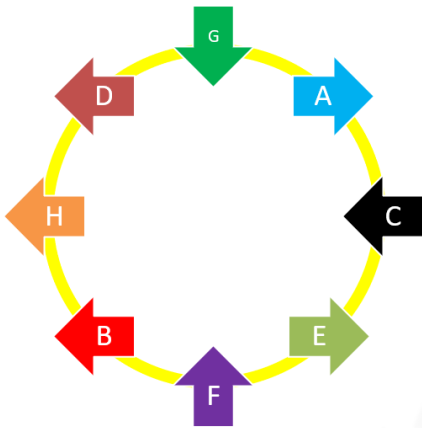
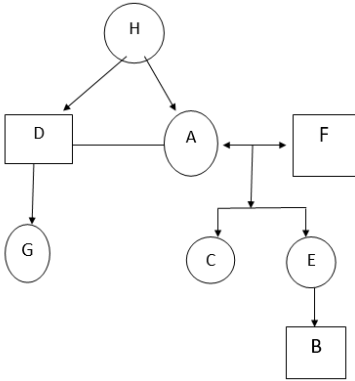
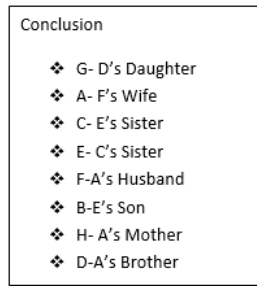
- ❖ G- D's Daughter
- ❖ A- F's Wife
- ❖ C- E's Sister
- ❖ E- C's Sister
- ❖ F-A's Husband
- ❖ B-E's Son
- ❖ H- A's Mother
- ❖ D-A's Brother



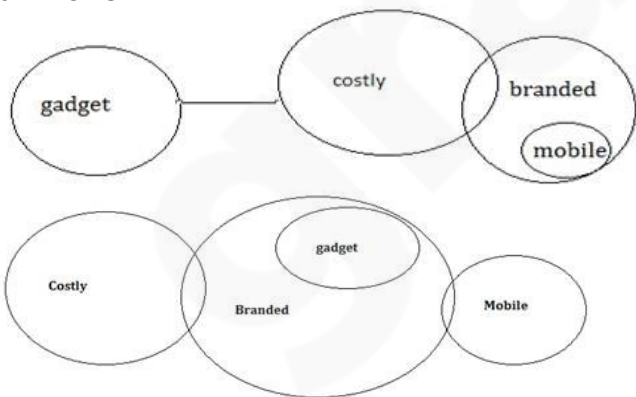
5. Ans. D.



Eight family members A, B, C, D, E, F, G and H are sitting around a circular table with equal distance between them but not necessarily in the same order. Some of them are facing the centre with some face outside i.e. opposite to centre. C sits second to the right of F, F faces the centre. A is a mother of C. Only two people sit between C and B i.e either form C's right or C's left. D's Daughter, G sits second to the right of C. No female is an immediate neighbour of H. A's mother H sits to the immediate right of B. G and B face opposite direction. Immediate neighbour of G face the same direction. C is the sister of E. F is father of E. Only three people sit between A's Brother, D and E. Neither D nor A is an immediate neighbour of F. E sits second to the right of A. E is the mother of B. Both H and E face a direction opposite to that of C. C is not an immediate neighbour of A's husband.

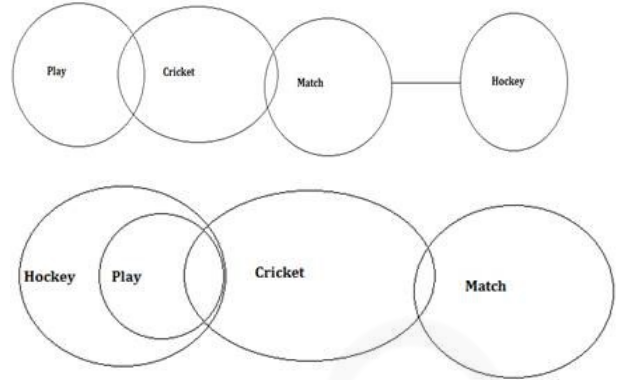


6. Ans. C.



We have to check for every statement to satisfy the given conclusions. And only 2nd statement will generate it.

7. Ans. D.



So, we can see that 3rd statement is satisfying the given conclusion.

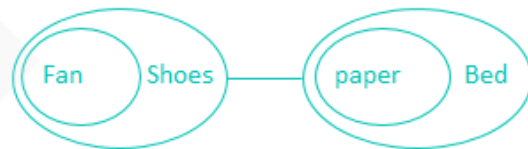
8. Ans. D.

In the above question only one statement is following the given conclusions which is as follows: Statement IV.



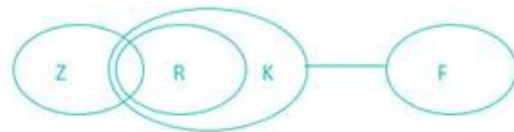
9. Ans. B.

In the above question only one statement is following the given conclusions which is as follows: Statement III.

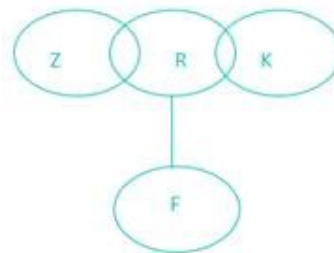


10. Ans. A.

In the above question two statements are following the given conclusions that are as follows: Statement II.



Statement V.



11. Ans. D.

Box – P, Q, R, S, T, V and W

Colour - Black, silver, red, pink, yellow, white and green

1) There are two boxes between the box Q and box T. There is only one box between box T and box W. There are three boxes between box W and box P, which is of black colour. There are only two boxes between box P and box R, which is of white colour. The silver colour box is immediately above the box W.

Case 1:

Box	Colour
	Silver
W	
R	White
T	
P	Black
Q	

Case 2:

Box	Colour
Q	Silver
W	
R	White
T	
P	Black

2) Box S is immediately above yellow colour box. T is of red colour box.

This is not possible in case 2. So, case 1 is correct.

Box	Colour
S	Silver
W	Yellow
R	White
T	Red
V	
P	Black
Q	

3) More than three boxes are there between pink and silver colour box. More than three boxes are there between yellow and pink colour box.

Box	Colour
S	Silver
W	Yellow
R	White
T	Red
V	Green
P	Black
Q	Pink

Hence, box W is of yellow colour.

12. Ans. C.

Box – P, Q, R, S, T, V and W

Colour - Black, silver, red, pink, yellow, white and green

1) There are two boxes between the box Q and box T. There is only one box between box T and box W. There are three boxes between box W and box P, which is of black colour. There are only two boxes between box P and box R, which is of white colour. The silver colour box is immediately above the box W.

Case 1:

Box	Colour
	Silver
W	
R	White
T	
P	Black
Q	

Case 2:

Box	Colour
Q	Silver
W	
R	White
T	
P	Black

2) Box S is immediately above yellow colour box. T is of red colour box.

This is not possible in case 2. So, case 1 is correct.

Box	Colour
S	Silver
W	Yellow
R	White
T	Red
V	
P	Black
Q	

3) More than three boxes are there between pink and silver colour box. More than three boxes are there between yellow and pink colour box.

Box	Colour
S	Silver
W	Yellow
R	White
T	Red
V	Green
P	Black
Q	Pink

Hence, three boxes are there between green and silver colour box.

13. Ans. E.

Box – P, Q, R, S, T, V and W

Colour - Black, silver, red, pink, yellow, white and green

1) There are two boxes between the box Q and box T. There is only one box between box T and box W. There are three boxes between box W and box P, which is of black colour. There are only two boxes between box P and box R, which is of white colour. The silver colour box is immediately above the box W.

Case 1:

Box	Colour
	Silver
W	
R	White
T	
P	Black
Q	

Case 2:

Box	Colour
Q	Silver
W	
R	White
T	
P	Black

2) Box S is immediately above yellow colour box. T is of red colour box.

This is not possible in case 2. So, case 1 is correct.

Box	Colour
S	Silver
W	Yellow
R	White
T	Red
V	
P	Black
Q	

3) More than three boxes are there between pink and silver colour box. More than three boxes are there between yellow and pink colour box.

Box	Colour
S	Silver
W	Yellow
R	White
T	Red
V	Green
P	Black
Q	Pink

Hence, box Q is of pink colour.

14. Ans. C.

Box – P, Q, R, S, T, V and W

Colour - Black, silver, red, pink, yellow, white and green

1) There are two boxes between the box Q and box T. There is only one box between box T and box W. There are three boxes between box W and box P, which is of black colour. There are only two boxes between box P and box R, which is of white colour. The silver colour box is immediately above the box W.



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Case 1:

Box	Colour
	Silver
W	
R	White
T	
P	Black
Q	

Case 2:

Box	Colour
Q	Silver
W	
R	White
T	
P	Black

2) Box S is immediately above yellow colour box. T is of red colour box.

This is not possible in case 2. So, case 1 is correct.

Box	Colour
S	Silver
W	Yellow
R	White
T	Red
V	
P	Black
Q	

3) More than three boxes are there between pink and silver colour box. More than three boxes are there between yellow and pink colour box.

Box	Colour
S	Silver
W	Yellow
R	White
T	Red
V	Green
P	Black
Q	Pink

Hence, box R is placed immediately above red colour box.

15. Ans. E.

Box – P, Q, R, S, T, V and W

Colour - Black, silver, red, pink, yellow, white and green

1) There are two boxes between the box Q and box T. There is only one box between box T and box W. There are three boxes between box W and box P, which is of black colour. There are only two boxes between box P and box R, which is of white colour. The silver colour box is immediately above the box W.

Case 1:

Box	Colour
	Silver
W	
R	White
T	
P	Black
Q	

Case 2:

Box	Colour
Q	Silver
W	
R	White
T	
P	Black

2) Box S is immediately above yellow colour box. T is of red colour box.

This is not possible in case 2. So, case 1 is correct.

Box	Colour
S	Silver
W	Yellow
R	White
T	Red
V	
P	Black
Q	

3) More than three boxes are there between pink and silver colour box. More than three boxes are there between yellow and pink colour box.

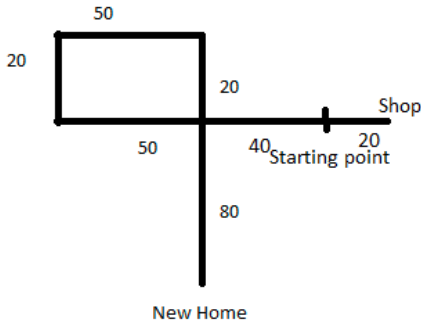
Box	Colour
S	Silver
W	Yellow
R	White
T	Red
V	Green
P	Black
Q	Pink

Hence, four boxes are there between box W and box Q.

16. Ans. C.

Using Pythagoras theorem

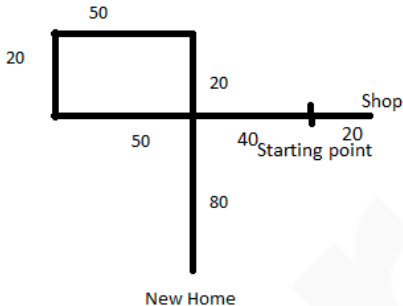
$$\text{Distance} = \sqrt{(40^2) + (80^2)} = 40\sqrt{5}$$



17. Ans. B.

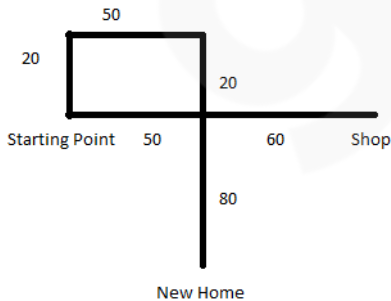
Using Pythagoras theorem

$$\text{Distance} = \sqrt{(80^2) + (60^2)}$$



18. Ans. C.

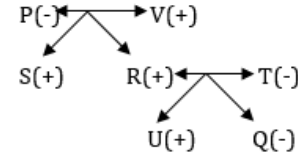
According to the directions we will get C as the answer



19. Ans. D.

R is father of U. R is married to T. V is father of R. T is daughter-in-law of P. So P is wife of V. P is mother S. P has no daughter. So S is also male. T has only one daughter as U is a male then Q must be daughter of T.

Family tree:



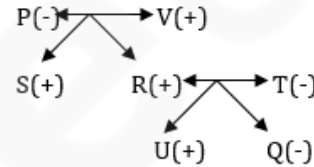
P is mother of S.

Hence, option D.

20. Ans. D.

R is father of U. R is married to T. V is father of R. T is daughter-in-law of P. So P is wife of V. P is mother S. P has no daughter. So S is also male. T has only one daughter as U is a male then Q must be daughter of T.

Family tree:



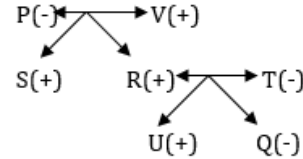
4 male members are there in the family.

Hence, option D.

21. Ans. A.

R is father of U. R is married to T. V is father of R. T is daughter-in-law of P. So P is wife of V. P is mother S. P has no daughter. So S is also male. T has only one daughter as U is a male then Q must be daughter of T.

Family tree:



U is nephew of S.

Hence, option A.

22. Ans. E.

Conditions ii) applies, So answer is 5)

PMARIP

23. Ans. B.

None conditions applies, So answer is 2)

QJPRBA

24. Ans. D.

Conditions iii) applies, So answer is 4)

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25. Ans. C.

None Conditions applies, So answer is 3)

26. Ans. A.

Conditions iv) applies, So answer is 1)

7 # \$ % 3 5

Y U Q M I Y

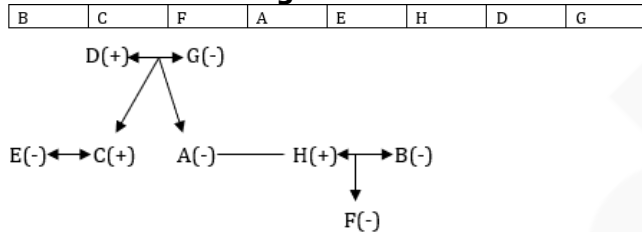
27. Ans. C.

F is immediate left of A.

Hence, option C.

D is father of A and sits 3rd to the right of A. E is wife of C who is brother of A. C is 2nd to the left of A. D and C are not at any end so C is 2nd from the left end and D is 2nd from the right end. E is 3rd to the left of G. E is not neighbor of C so E is immediate right of A and G is at the right end. D's wife is immediate right of D so G is wife of D. G is mother of H. H's daughter is 3rd to the left of H so H is immediate left of D. F's mother is 3rd to the left of A it means F is daughter of H and B is wife of H. So B is at the left end and F is immediate left of A so A is female.

Here is final arrangement:



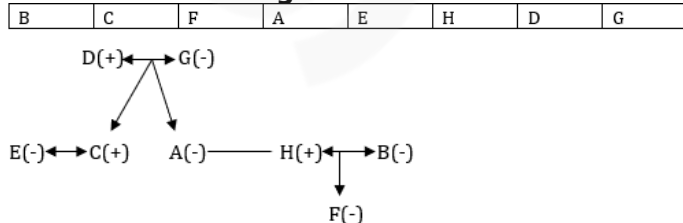
28. Ans. C.

G is mother of A.

Hence, option C.

D is father of A and sits 3rd to the right of A. E is wife of C who is brother of A. C is 2nd to the left of A. D and C are not at any end so C is 2nd from the left end and D is 2nd from the right end. E is 3rd to the left of G. E is not neighbor of C so E is immediate right of A and G is at the right end. D's wife is immediate right of D so G is wife of D. G is mother of H. H's daughter is 3rd to the left of H so H is immediate left of D. F's mother is 3rd to the left of A it means F is daughter of H and B is wife of H. So B is at the left end and F is immediate left of A so A is female.

Here is final arrangement:



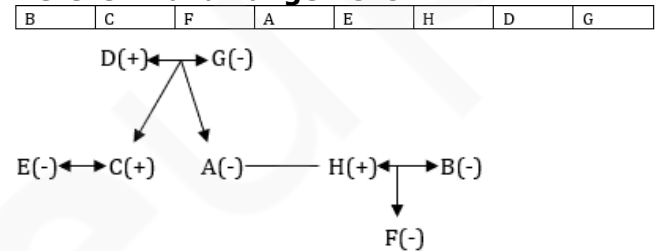
29. Ans. A.

H is 2nd to the right of A and D is father of H.

Hence, option A.

D is father of A and sits 3rd to the right of A. E is wife of C who is brother of A. C is 2nd to the left of A. D and C are not at any end so C is 2nd from the left end and D is 2nd from the right end. E is 3rd to the left of G. E is not neighbor of C so E is immediate right of A and G is at the right end. D's wife is immediate right of D so G is wife of D. G is mother of H. H's daughter is 3rd to the left of H so H is immediate left of D. F's mother is 3rd to the left of A it means F is daughter of H and B is wife of H. So B is at the left end and F is immediate left of A so A is female.

Here is final arrangement:



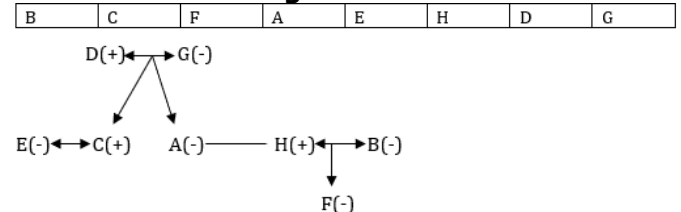
30. Ans. D.

B and H are at the ends.

Hence, option D.

D is father of A and sits 3rd to the right of A. E is wife of C who is brother of A. C is 2nd to the left of A. D and C are not at any end so C is 2nd from the left end and D is 2nd from the right end. E is 3rd to the left of G. E is not neighbor of C so E is immediate right of A and G is at the right end. D's wife is immediate right of D so G is wife of D. G is mother of H. H's daughter is 3rd to the left of H so H is immediate left of D. F's mother is 3rd to the left of A it means F is daughter of H and B is wife of H. So B is at the left end and F is immediate left of A so A is female.

Here is final arrangement:



31. Ans. D.

B is mother of F.

Hence, option D.

D is father of A and sits 3rd to the right of A. E is wife of C who is brother of A. C is 2nd to the left of A. D and C are not at any end so C is 2nd from the

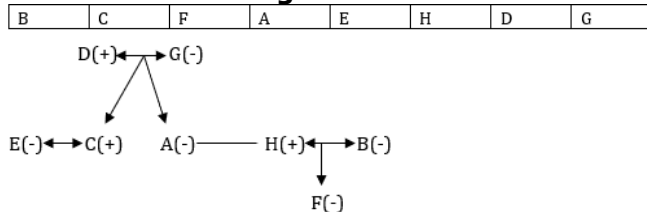


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left end and D is 2nd from the right end. E is 3rd to the left of G. E is not neighbor of C so E is immediate right of A and G is at the right end. D's wife is immediate right of D so G is wife of D. G is mother of H. H's daughter is 3rd to the left of H so H is immediate left of D. F's mother is 3rd to the left of A it means F is daughter of H and B is wife of H. So B is at the left end and F is immediate left of A so A is female.

Here is final arrangement:



32. Ans. C.

$D < A \geq C = B$, $E \geq A$

$E @ B \rightarrow E > B$

$E \# B \rightarrow E = B$

E is either greater than or equal to B since $E \geq A \geq C = B$.

33. Ans. D.

$E \leq F = H < G$, $I < A$

I has no relation with E, F, H and G.

So, neither of the conclusion follows.

34. Ans. E.

C likes Yellow and is staying on an odd numbered floor. Three persons are staying between C and B. B lives above C. So B either lives on 7th or 5th floor.

Floor	Case 1	Case 2
8		
7	B	
6		
5		B
4		
3	C	
2		
1		C

Two floors are between B and E who likes Brown. E doesn't staying on top floor.

Floor	Case 1	Case 2
8		
7	B	
6		
5		B
4	E/Brown	
3	C	
2		E/Brown
1		C

The number of floors between B and A is same as C and D. A lives above D but below B. From this statement case 2 gets rejected and we get two cases of case 1.

Floor	Case 1A	Case 1B
8		
7	B	B
6	A	
5		A
4	E/Brown	E/Brown
3	C	C
2	D	
1		D

G likes White and lives below E.

Floor	Case 1A	Case 1B
8		
7	B	B
6	A	
5		A
4	E/Brown	E/Brown
3	C	C
2	D	G/White
1	G/White	D

At least one person is staying between F and A so F lives on 8th floor. One floor is between F and H who likes Red. So case 1A gets rejected. Two floors are between G and the one who likes Pink. Then A likes Pink.

Floor	Case 1B
8	F
7	B
6	H/Red
5	A/Pink
4	E/Brown
3	C
2	G/White
1	D

The one who likes Blue is staying just above the one who likes Black. So F likes Blue and B likes Black. C doesn't like Silver then C likes Yellow and D likes Silver.

Here is the final arrangement:

Floor	Case 1B
8	F/Blue
7	B/Black
6	H/Red
5	A/Pink
4	E/Brown
3	C/Yellow
2	G/White
1	D/Silver

All the persons are staying on even numbered floor except D.

Hence, option E.

35. Ans. C.

C likes Yellow and is staying on an odd numbered floor. Three persons are staying between C and B. B lives above C. So B either lives on 7th or 5th floor.

Floor	Case 1	Case 2
8		
7	B	
6		
5		B
4		
3	C	
2		
1		C

Two floors are between B and E who likes Brown. E doesn't staying on top floor.

Floor	Case 1	Case 2
8		
7	B	
6		
5		B
4	E/Brown	
3	C	
2		E/Brown
1		C

The number of floors between B and A is same as C and D. A lives above D but below B. From this statement case 2 gets rejected and we get two cases of case 1.

Floor	Case 1A	Case 1B
8		
7	B	B
6	A	
5		A
4	E/Brown	E/Brown
3	C	C
2	D	
1		D

G likes White and lives below E.

Floor	Case 1A	Case 1B
8		
7	B	B
6	A	
5		A
4	E/Brown	E/Brown
3	C	C
2	D	G/White
1	G/White	D

At least one person is staying between F and A so F lives on 8th floor. One floor is between F and H who likes Red. So case 1A gets rejected. Two floors are between G and the one who likes Pink. Then A likes Pink.

Floor	Case 1B
8	F
7	B
6	H/Red
5	A/Pink
4	E/Brown
3	C
2	G/White
1	D

The one who likes Blue is staying just above the one who likes Black. So F likes Blue and B likes Black. C doesn't like Silver then C likes Yellow and D likes Silver.

Here is the final arrangement:

Floor	Case 1B
8	F/Blue
7	B/Black
6	H/Red
5	A/Pink
4	E/Brown
3	C/Yellow
2	G/White
1	D/Silver

C likes Yellow.

Hence, option C.

36. Ans. C.

C likes Yellow and is staying on an odd numbered floor. Three persons are staying between C and B. B lives above C. So B either lives on 7th or 5th floor.

Floor	Case 1	Case 2
8		
7	B	
6		
5		B
4		
3	C	
2		
1		C

Two floors are between B and E who likes Brown. E doesn't staying on top floor.

Floor	Case 1	Case 2
8		
7	B	
6		
5		B
4	E/Brown	
3	C	
2		E/Brown
1		C

The number of floors between B and A is same as C and D. A lives above D but below B. From this statement case 2 gets rejected and we get two cases of case 1.

Floor	Case 1A	Case 1B
8		
7	B	B
6	A	
5		A
4	E/Brown	E/Brown
3	C	C
2	D	
1		D

G likes White and lives below E.

Floor	Case 1A	Case 1B
8		
7	B	B
6	A	
5		A
4	E/Brown	E/Brown
3	C	C
2	D	G/White
1	G/White	D

At least one person is staying between F and A so F lives on 8th floor. One floor is between F and H who likes Red. So case 1A gets rejected. Two floors are between G and the one who likes Pink. Then A likes Pink.

Floor	Case 1B
8	F
7	B
6	H/Red
5	A/Pink
4	E/Brown
3	C
2	G/White
1	D

The one who likes Blue is staying just above the one who likes Black. So F likes Blue and B likes Black. C doesn't like Silver then C likes Yellow and D likes Silver.

Here is the final arrangement:

Floor	Case 1B
8	F/Blue
7	B/Black
6	H/Red
5	A/Pink
4	E/Brown
3	C/Yellow
2	G/White
1	D/Silver

Three persons are staying between D and A. Hence, option C.

37. Ans. A.

C likes Yellow and is staying on an odd numbered floor. Three persons are staying between C and B. B lives above C. So B either lives on 7th or 5th floor.

Floor	Case 1	Case 2
8		
7	B	
6		
5		B
4		
3	C	
2		
1		C

Two floors are between B and E who likes Brown. E doesn't staying on top floor.

Floor	Case 1	Case 2
8		
7	B	
6		
5		B
4	E/Brown	
3	C	
2		E/Brown
1		C

The number of floors between B and A is same as C and D. A lives above D but below B. From this statement case 2 gets rejected and we get two cases of case 1.

Floor	Case 1A	Case 1B
8		
7	B	B
6	A	
5		A
4	E/Brown	E/Brown
3	C	C
2	D	
1		D

G likes White and lives below E.

Floor	Case 1A	Case 1B
8		
7	B	B
6	A	
5		A
4	E/Brown	E/Brown
3	C	C
2	D	G/White
1	G/White	D

At least one person is staying between F and A so F lives on 8th floor. One floor is between F and H who likes Red. So case 1A gets rejected. Two floors are between G and the one who likes Pink. Then A likes Pink.

Floor	Case 1B
8	F
7	B
6	H/Red
5	A/Pink
4	E/Brown
3	C
2	G/White
1	D

The one who likes Blue is staying just above the one who likes Black. So F likes Blue and B likes Black. C doesn't like Silver then C likes Yellow and D likes Silver.

Here is the final arrangement:

Floor	Case 1B
8	F/Blue
7	B/Black
6	H/Red
5	A/Pink
4	E/Brown
3	C/Yellow
2	G/White
1	D/Silver

D likes Silver.
Hence, option A.

38. Ans. D.

C likes Yellow and is staying on an odd numbered floor. Three persons are staying between C and B. B lives above C. So B either lives on 7th or 5th floor.

Floor	Case 1	Case 2
8		
7	B	
6		
5		B
4		
3	C	
2		
1		C

Two floors are between B and E who likes Brown. E doesn't stay on top floor.

Floor	Case 1	Case 2
8		
7	B	
6		
5		B
4	E/Brown	
3	C	
2		E/Brown
1		C

The number of floors between B and A is same as C and D. A lives above D but below B. From this statement case 2 gets rejected and we get two cases of case 1.

Floor	Case 1A	Case 1B
8		
7	B	B
6	A	
5		A
4	E/Brown	E/Brown
3	C	C
2	D	
1		D

G likes White and lives below E.

Floor	Case 1A	Case 1B
8		
7	B	B
6	A	
5		A
4	E/Brown	E/Brown
3	C	C
2	D	G/White
1	G/White	D

At least one person is staying between F and A so F lives on 8th floor. One floor is between F and H who likes Red. So case 1A gets rejected. Two floors are between G and the one who likes Pink. Then A likes Pink.

Floor	Case 1B
8	F
7	B
6	H/Red
5	A/Pink
4	E/Brown
3	C
2	G/White
1	D

The one who likes Blue is staying just above the one who likes Black. So F likes Blue and B likes Black. C doesn't like Silver then C likes Yellow and D likes Silver.

Here is the final arrangement:

Floor	Case 1B
8	F/Blue
7	B/Black
6	H/Red
5	A/Pink
4	E/Brown
3	C/Yellow
2	G/White
1	D/Silver

One person is staying between A and C.

Hence, option D.

39. Ans. C.

Tisha got less marks than both Vinay and Parul. Rohit got more marks than Queen but less than Sudha. Tisha got the second least rank and Parul got the second highest rank, Vinay got less marks than Rohit.

Sudha > Parul > Rohit > Vinay > Tisha > Queen

(1st) (2nd) (3rd) (4th) (5th) (6th)

40. Ans. D.

Tisha got less marks than both Vinay and Parul. Rohit got more marks than Queen but less than Sudha. Tisha got the second least rank and Parul got the second highest rank, Vinay got less marks than Rohit.

Sudha > Parul > Rohit > Vinay > Tisha > Queen

(1st) (2nd) (3rd) (4th) (5th) (6th)

41. Ans. A.

$$8p+7q+7pq=25 \dots\dots\dots \times 2$$

$$2p+2q+2pq=6 \dots\dots\dots \times 7$$

Using elimination method

$$16p+14q+14pq=50$$

$$14p+14q+14pq=42$$

$$- \quad - \quad - \quad -$$

$$\underline{2p \qquad \qquad \qquad = 8}$$

$$p = 8/2$$

$$p=4$$

$$\text{substituting in } 8p+7q+7pq=25$$

$$8*4+7q+7pq=25$$

$$32+7q+7*4*q=25$$

$$7q+28q=25-32$$

$$35q=-7$$

$$q=-1/5$$

$$p>q$$

42. Ans. A.

$$5x^2 - 5x - 7x + 7$$

$$5x(x-1) - 7(x-1)$$

$$(5x-7)(x-1)$$

$$x = 7/5, 1$$

43. Ans. E.

Solving I

$$16x = 12^2 + \sqrt[4]{4096} - 4x^2$$

$$16x = 144 + 8 - 4x^2$$

$$4x^2 + 16x - 152 = 0$$

Using quadratic formula,

$$x = 4.48 \text{ or } -8.48$$

Solving II

$$22.03y = 6.48y^2$$

$$y(6.48y - 22.03) = 0$$

$$y = 0 \text{ or } 22.03/6.38 = 3.45$$

$$4.48 > 0 \text{ and } 3.45$$

$$-8.48 < 0 \text{ and } 3.45$$

Hence, no relation can be established between x and y.

44. Ans. A.

$$\text{I. } x + \frac{3}{2x} = \frac{5}{2}$$

$$2x^2 + 3 = 5x$$

$$2x^2 - 5x + 3 = 0$$

$$2x^2 - 2x - 3x + 3 = 0$$

$$2x(x-1) - 3(x-1) = 0$$

$$(2x-3)(x-1) = 0$$

$$X = 1, \frac{3}{2}$$

II.

$$\sqrt{y} - \frac{3}{\sqrt{y}} = 0$$

$$\text{Or, } y = 3 \text{ Hence } x < y$$

45. Ans. E.

$$\text{E. I. } 4x^2 + 17x + 15 = 0$$

$$\Rightarrow 4x^2 + 12x + 5x + 15 = 0$$

$$\Rightarrow (x+3)(4x+5) = 0$$

$$\Rightarrow x = -3, -\frac{5}{4}$$

$$\text{II. } 3y^2 + 19y + 28 = 0$$

$$\Rightarrow 3y^2 + 12y + 7y + 28 = 0$$

$$\Rightarrow (y+4)(3y+7) = 0$$

$$\Rightarrow y = -4, -\frac{7}{3}$$

\Rightarrow No relation between X and Y



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46. Ans. B.

Let, total no. of male students = M

And total no. of female students = F

No. of male students in class 1 = m_1

No. of male students in class 2 = m_2

No. of male students in class 3 = m_3

No. of male students in class 4 = m_4

No. of female students in class 5 = m_5

No. of female students in class 1 = f_1

No. of female students in class 2 = f_2

No. of female students in class 3 = f_3

No. of female students in class 4 = f_4

No. of female students in class 5 = f_5

According to problem,

$$\Rightarrow m_2 - m_4 = 78 \dots\dots (1)$$

$$\Rightarrow m_2 + m_4 = 330 \dots\dots (2)$$

From, (2) - (1) we get,

$$\Rightarrow 2m_2 = 408$$

$$\Rightarrow m_2 = 204$$

Putting the value of m_2 in (2) we get,

$$\Rightarrow 204 + m_4 = 330$$

$$\Rightarrow m_4 = 126$$

According to problem,

$$\Rightarrow m_5 = 18$$

$$\Rightarrow M \times \frac{3}{100} = 18$$

$$\Rightarrow M = 600$$

$$\therefore m_1 = 600 \times \frac{25}{2 \times 100} = 75 \left[\because 12\frac{1}{2}\% = \left(\frac{25}{2}\right)\% \right]$$

$$\therefore m_3 = M - (m_1 + m_2 + m_4 + m_5)$$

$$\Rightarrow m_3 = 600 - (75 + 204 + 126 + 18)$$

$$\Rightarrow m_3 = 600 - 423$$

$$\Rightarrow m_3 = 177$$

Ratio of male to female students in the school = 4 : 3

According to problem,

$$\Rightarrow 600/F = 4/3$$

$$\Rightarrow F = 600 \times \frac{3}{4}$$

$$\Rightarrow F = 450$$

$$\therefore f_2 = 450 \times \frac{100}{9 \times 100} = 50 \left[\because 11\frac{1}{9}\% = \left(\frac{100}{9}\right)\% \right]$$

$$\therefore f_3 = 50 \times \left(1 + \frac{150}{100}\right) = 125$$

$$\therefore f_5 = m_5 + 9 = 18 + 9 = 27$$

According to problem,

$$\Rightarrow f_4 - f_1 = 36 \dots\dots (3)$$

$$\therefore f_4 + f_1 = F - (f_2 + f_3 + f_5)$$

$$\Rightarrow f_4 + f_1 = 450 - (50 + 125 + 27)$$

$$\Rightarrow f_4 + f_1 = 450 - 202$$

$$\Rightarrow f_4 + f_1 = 248 \dots\dots (4)$$

From (4) - (3) we get,

$$\Rightarrow 2f_4 = 248 + 36$$

$$\Rightarrow f_4 = 284/2$$

$$\Rightarrow f_4 = 142$$

Putting the value of f_4 in (4) we get,

$$\Rightarrow 142 + f_2 = 248$$

$$\Rightarrow f_2 = 248 - 142$$

$$\Rightarrow f_2 = 106$$

\therefore Total no. of students studying in class 4,

$$= m_4 + f_4 = 126 + 142 = 268$$

47. Ans. D.

No. of male students in class 1 = $m_1 = 75$

No. of female students in class 2 = $f_2 = 50$

\therefore Required ratio,

$$\Rightarrow 75 : 50$$

$$\Rightarrow 3 : 2$$

48. Ans. E.

No. of female students in class 3 = $f_3 = 125$

No. of male students in class 3 = $m_3 = 177$

\therefore Required percentage,

$$\Rightarrow (125/177)/100\%$$

$$\Rightarrow 70.62\%$$

49. Ans. C.

No. of male students in class 2 = $m_2 = 204$

No. of female students in class 2 = $f_2 = 50$

\therefore Total no. of students in class 2 = $204 + 50 = 254$

No. of male students in class 3 = $m_3 = 177$

No. of female students in class 3 = $f_3 = 125$

\therefore Total no. of students in class 7 = $177 + 125 = 302$

\therefore difference between the total no. of students of class 2 and class 3,

$$\Rightarrow 302 - 254 = 48$$

50. Ans. A.

No. of female students in the school = $F = 450$

No. of male students in the school = $M = 600$

\therefore Total no. of students in the school = $F + M = 450 + 600 = 1050$

No. of male students in class 5 = 18

\therefore Required percentage,

$$\Rightarrow 18/1050 \times 100\%$$

$$\Rightarrow 1.71\%$$

51. Ans. C.

Probability of passing 1st paper = 0.6

Probability of passing 2nd paper = 0.7

Probability of passing 3rd paper = 0.7

\therefore Probability that Isha passes in all three papers,

$$= 0.6 \times 0.7 \times 0.7$$

$$= 0.294$$

52. Ans. C.

When Isha passes only in 1st paper,

Probability of passing in 1st paper = 0.6

Probability of passing in 2nd paper = 0.7

\therefore Probability of failing in 2nd paper = $1 - 0.7 = 0.3$



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Probability of passing in 3rd paper = 0.9
 ∴ Probability of failing in 3rd paper = 1 - 0.9 = 0.1
 ∴ Probability of passing in only 1st paper,
 = $0.6 \times 0.3 \times 0.1$
 = 0.018

When Isha passes only in 2nd paper,
 Probability of passing in 1st paper = 0.6
 ∴ Probability of failing in 1st paper = 1 - 0.6 = 0.4
 Probability of passing in 2nd paper = 0.9
 Probability of passing in 3rd paper = 0.7
 ∴ Probability of failing in 3rd paper = 1 - 0.7 = 0.3
 ∴ Probability of passing in only 2nd paper,
 = $0.4 \times 0.9 \times 0.3$
 = 0.108

When Isha passes only in 3rd paper,
 Probability of passing in 1st paper = 0.6
 ∴ Probability of failing in 1st paper = 1 - 0.6 = 0.4
 Probability of passing in 2nd paper = 0.9
 ∴ Probability of failing in 2nd paper = 1 - 0.9 = 0.1
 Probability of passing in 3rd paper = 0.9
 ∴ Probability of passing in only 3rd paper,
 = $0.4 \times 0.1 \times 0.9$
 = 0.036
 ∴ Probability that Isha passes in only one paper,
 = 0.018 + 0.108 + 0.036
 = 0.162

53. Ans. D.

Let present age of Abid = M years
 Then according to question

$$2(M-X) = M+X$$

$$X = M/3 \dots\dots 1$$

$$\text{And } 6(M-Y) = M+Y$$

$$Y = 5M/7 \dots\dots 2$$

From 1 and 2 we get

$$x/y = 7/15$$

54. Ans. D.

Compound interest :

$$A = P \left(1 + \frac{r}{n} \right)^n$$

From statement II:

$$2340 = P \left(1 + \frac{r}{100} \right)^2 \dots\dots (1)$$

From statement III:

$$5460 = P \left(1 + \frac{r}{100} \right)^1 \dots\dots (2)$$

On dividing (2) by (1),

$$5460/2340 = \left(1 + \frac{r}{100} \right)^1$$

$$91/39 = \left(1 + \frac{r}{100} \right)^1$$

$$91/39 - 1 = r/100$$

$$91/39 = r/100$$

$$r = 9100/39 \%$$

Thus statement II and III gives the answer

From statement I,

$$P = 10,000$$

Now if we replace the value of P in equation (1) and (2), we get the answer from both

Thus statements I and III or I and II also gives the answer

Hence, any of the two statements are sufficient to answer this question

55. Ans. E.

From statement I and III,

$$\text{Total} = \text{Goats} + \text{Hens} + \text{Rabbits}$$

$$50 = \text{Goats} + 25 + 5$$

$$\text{Goats} = 50 - 30 = 20$$

From statement II:

Hen has 2 legs and 1 head while goat has 4 legs and 1 head

$$\text{No. of legs} = 2 * \text{No. of heads} + 40$$

$$\text{Let No. of goats} = G$$

$$\text{No. of hens} = H$$

$$4G + 2H = 2(G + H) + 40$$

$$4G + 2H = 2G + 2H + 40$$

$$2G = 40$$

$$G = 40/2 = 20$$

Hence, either statements I and III together or statement II is sufficient

56. Ans. E.

From statement I,

$$\text{Resultant discount of two successive discounts} = (a + b - ab/100) \%$$

$$(a + b - ab/100) = 32$$

From statement II,

$$\text{Resultant discount of three successive discounts} =$$

$$\{a + b + c + (ab + bc + ca)/100 + abc/10000\} \%$$

$$\{a + b + c + (ab + bc + ca)/100 + abc/10000\} = 51.4$$

From statement III,

$$c = 35\%$$

We can place the value of c in equation of statement II,

Then there are two equations and 2 variables a and



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b which can be solved

Hence, all the statements are required to answer
57. Ans. E.

Let the speed of trains be x and y respectively

From statements I,

$$\text{Relative length} = 120 + 100 = 220\text{m}$$

From statement II,

$$\text{Relative speed} = (x - y)$$

$$\text{Speed} = \text{Distance/Time}$$

$$x - y = 220/27 \dots (1)$$

From statement III:

$$\text{Relative speed} = x + y$$

$$x + y = 220/12 \dots (2)$$

From equations (1) and (2), we can calculate x and y , the speed of two trains

Hence, all the statements are required to answer this question.

58. Ans. D.

Let the speed of boat in still water be x

From statement I and II:

$$d = \text{distance covered one way} = 6 \text{ km}$$

Let the time taken to go upstream be a hours

$$\text{Time downstream} = a - 2 \text{ hours}$$

$$\text{Total time} = \text{time downstream} + \text{upstream}$$

$$a - 2 + a = 4$$

$$2a = 6$$

$$a = 3 \text{ hours}$$

Let the speed of current be y

$$x + y = d/a \text{ (downstream)}$$

$$x - y = d/3 \text{ (upstream)}$$

Solving both equations we can get x

From statements II and III:

Let the time taken to go upstream be a hours

$$\text{Time downstream} = a - 2 \text{ hours}$$

$$x - 2 = d/a \text{ (upstream)}$$

$$x + 2 = d/(a-2) \text{ (downstream)}$$

Two equations two unknowns, x can be calculated

From statements I and III:

$$\text{Speed downstream} = x + 2$$

$$\text{Speed upstream} = x - 2$$

$$6/(x+2) + 6/(x-2) = 4$$

$$6(x-2) + 6(x+2) = 4(x^2-4)$$

$$12x = 4(x^2-4)$$

$$x^2 - 3x - 4 = 0$$

$$x = -1, 4$$

Neglecting negative value, $x = 4 \text{ kmph}$

Hence, any of the two statements are sufficient

59. Ans. B.

In country Abma, the cost of product after one

$$\text{month} = 81 \left(1 + \frac{1}{4}\right)^n$$

Therefore, cost of the product after n months =

$$81 \left(1 + \frac{1}{4}\right)^n$$

In country Yalka, the cost of the product after one

$$\text{month} = 625 \left(1 - \frac{1}{4}\right)^n$$

Therefore, cost of the product after n months =

$$625 \left(1 - \frac{1}{4}\right)^n$$

If cost of the products in X and Y become equal after n months, we can write

$$81 \left(1 + \frac{1}{4}\right)^n = 625 \left(1 - \frac{1}{4}\right)^n$$

$$(5/3)^n = 625/81$$

$$(5/3)^n = (5/3)^4$$

Therefore, $n = 4$.

60. Ans. D.

Let the distance of school from town P be x .

Distance if school from town Q = $80 - x$

$$\text{Total cost of travelling} = 200 \times x \times 1.5 + 100 \times$$

$$(80 - x) \times 1.5$$

$$= 300x + 12000 - 150x$$

$$= 12000 + 150x$$

When, $x = 0$ total cost of travelling is minimum.

Thus, school should be built at town P.

61. Ans. E.

The initial amount of Honey was:

Let the initial quantity of Honey in the bottle be x

$$945 = x(1 - 2/5)^3$$

$$945 = x \cdot 27/125$$

$$x = 945 \cdot 125/27$$

$$x = 4375 \text{ ml}$$

Initial amount of honey = 4.375 liters.

62. Ans. A.

Let total work = 120 unit

A can complete the work in 40 days.

$$\therefore \text{A's 1 day's work} = 120/40 = 3 \text{ unit}$$

B can complete the work in 15 days.

$$\therefore \text{B's 1 day's work} = 120/15 = 8 \text{ unit}$$

C can complete the work in 30 days.

$$\therefore \text{C's 1 day's work} = 120/30 = 4 \text{ unit}$$

A is assisted by B and C only on every third day.

\therefore Their 3 days' work,

$$3 \cdot 3 + 8 \cdot 1 + 4 \cdot 1 = 21 \text{ unit}$$

$$\therefore \text{Their 3 days' work} = 21 \text{ unit}$$

$$\therefore \text{hence 105 units will be completed in } 5 \cdot 3 = 15$$

days of remaining 15 units 6 units will be

completed by A in next two days and the remaining



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9 units will be completed by A, B, and C in 9/21 days.

therefore total number of days taken to complete work = $15+2+9/21 = 17 \frac{3}{7}$ days.

63. Ans. C.

Let the time in which Ramu, Somu and Domu can complete the work be r days, s days and d days respectively. Ratio of the wages of Ramu, Somu and Domu is equal to ratio of the work done by Ramu, Somu and Domu

$$6300:7350:8400 = 4(1/r) : 4(1/s) : 4(1/d)$$

$$\Rightarrow 1/r : 1/s : 1/d = 6:7:8$$

$$\Rightarrow 4/r + 4/s + 4/d = 1$$

$$\Rightarrow 1/r + 1/s + 1/d = \frac{1}{4}$$

$$\Rightarrow 1/d = 8/21 (1/4) = 1/10.5$$

$$\Rightarrow d = 10.5 \text{ days.}$$

64. Ans. B.

Let amount invested by Ramesh = x Rs.

Manoj =

$$20,000 \times 6$$

$$\text{Ramesh} = 12 \times X$$

Ratio of their earning = 120000 : 12x or

$$6000:(9000-6000)$$

$$\frac{12000}{12x} = \frac{6000}{3000}, x = \text{Rs } 5000$$

$$X = 5000 \text{ Rs.}$$

65. Ans. D.

Let the total profit be Rs. P

Since 60% of the profit should be divided equally between them and the remaining profit is to be treated as interest on capital

∴ Difference is only due to the 40% of the profit which was distributed according to their investments

∴ 40% of P is distributed in the ratio =

$$125000:85000 = 25:17$$

∴ Share of the first partner

$$= 40\% \text{ of } P \left(\frac{25}{25+17} \right) = 40\% \text{ of } P \left(\frac{25}{42} \right) = \frac{5P}{21}$$

∴ Share of the second

$$= 40\% \text{ of } P \left(\frac{17}{42} \right) = \frac{17P}{105}$$

partner

According to the question,

$$= \frac{5P}{21} - \frac{17P}{105} = 300$$

Difference in shares

$$\therefore \frac{(25-17)P}{105} = 300$$

$$\therefore P = 300 \times \frac{105}{8} = \text{Rs } 3937.50$$

∴ Total profit made in the business is Rs. 3937.50

66. Ans. C.

$$A = P(1 + r/100)^t$$

Given, Sapna borrowed Rs. 900 at 10% p.a. compound interest.

Time = 2 years

$$A = 900(1 + 10/100)^2$$

$$\Rightarrow A = \text{Rs. } 1089$$

Now, she paid back Rs. 500 at the end of 1st year.

Interest on this 500 for 1 year = 10% of 500 = 50

So by the end of second year amount left to be paid = 1089 - 500 - 50 = 539

Amount to be paid at the end of the 2nd year = Rs. 539

67. Ans. C.

Area of the four walls = total cost/cost per sq. Feet

$$= 8960/8 = 1120 \text{ square feet}$$

$$2h(l+b) = 1120$$

$$2h(20+12) = 1120$$

$$h = 17.5$$

68. Ans. B.

Let, Upstream speed = x km/h and Downstream speed = y km/h

A man can row 18 km upstream and 42 km downstream in 6 hours.

According to problem,

$$\Rightarrow \frac{18}{x} + \frac{42}{y} = 6$$

$$\Rightarrow \frac{3}{x} + \frac{7}{y} = 1$$

$$\Rightarrow \frac{30}{x} + \frac{70}{y} = 10 \quad \dots\dots\dots (1)$$

He can row 30 km upstream and 28 km downstream in 7 hours.

According to problem,

$$\Rightarrow \frac{30}{x} + \frac{28}{y} = 7 \quad \dots\dots\dots (2)$$

From (1) - (2) we get,

$$\Rightarrow \frac{70}{y} - \frac{28}{y} = 10 - 7$$

$$\Rightarrow \frac{42}{y} = 3$$

$$\Rightarrow y = 14$$

Putting the value $y = 14$ in (2) we get,

$$\Rightarrow \frac{30}{x} + \frac{28}{14} = 7$$

$$\Rightarrow \frac{30}{x} = 7 - 2$$

$$\Rightarrow x = 30/5$$

$$\Rightarrow x = 6$$

∴ Speed of the man in still water,

$$\Rightarrow \frac{x+y}{2}$$

$$\Rightarrow \frac{14+6}{2}$$

$$\Rightarrow 10 \text{ km/h}$$

69. Ans. B.

The Profit % and the Discount % of the Article D = x

$$\text{Cost Price} \times (100+x)/100 = \text{S.P.}$$

$$1000 \times (100+x) = 1100 \times 100$$

$$100000 + 1000x = 110000$$

$$1000x = 110000 - 100000$$

$$1000x = 10000$$

$$x = 10\%$$

$$\text{M.P.} = 1100/90 \times 100$$

$$\text{M.P.} = \text{Rs. } 11000/9 = 1222.22$$

70. Ans. B.

The ratio of Cost Price of the Article D and Article E is 4:5

$$\text{C.P. of Article D} = \text{Rs. } 1000$$

$$\text{C.P. of Article E} = 1000 \times 5/4$$

$$= \text{Rs. } 1250$$

$$\text{S.P. of Article E} = 1250 \times 120\%$$

$$= \text{Rs. } 1500$$

$$\text{M.P. of Article E} = \text{Rs. } 4000$$

$$\text{Discount \%} = (\text{M.P.} - \text{S.P.}) \times 100/\text{M.P.}$$

$$= (4000 - 1500) \times 100/4000$$

$$= 62.5\%$$

71. Ans. C.

$$\text{M.P. of Article A} = \text{Rs. } 1400$$

$$\text{C.P. of Article B} = 1400 - 250 = \text{Rs. } 1150$$

$$\text{S.P. of Article B} = 1150 \times 108\%$$

$$= \text{Rs. } 1242.$$

$$\text{M.P. of Article B} = 1242 + 1250 = \text{Rs. } 2500$$

$$\text{Discount \%} = (2500 - 1242) \times 100/2500$$

$$\text{Discount \%} = 1258 \times 100/2500$$

$$\text{Discount \%} = 50.52\%$$

72. Ans. C.

$$\text{M.P. of Article A} = \text{Rs. } 1400$$

$$\text{C.P. of Article D} = \text{Rs. } 1000$$

$$\text{Difference} = \text{Rs. } 1400 - 1000$$

$$\text{Less \%} = (1400 - 1000) \times 100/1400$$

$$\text{Less \%} = 28.57\%$$

73. Ans. E.

$$\text{M.P. of Article C} = \text{Rs. } 2760$$

$$\text{C.P. of Article C} = 2760 \times 100/120$$

$$= \text{Rs. } 2300$$

$$\text{New Profit \%} = 20\% + 12.5\%$$

$$= 22.5\%$$

$$\text{S.P. of Article C} = 2300 \times 122.5/100$$

$$= \text{Rs. } 2817.5$$

74. Ans. D.

Let x be the number of hours Sana walks at 10kmph. x will be the no. of hours Peter and Gavin traveled by car at 50kmph. Let x_1 be the number of hours that Gavin walks till Peter reaches Sana. Let x_2 be the number of hours when Peter and Sana travel in the car till the destination. The total Distance traversed by each of them can be evaluated as follows

$$\text{Peter} = 50x - 50 \times x_1 + 50 \times x_2 = 200 \text{-----(1)}$$

$$\text{Sana} = 10x + 10 \times x_1 + 50 \times x_2 = 200 \text{-----(2)}$$

$$\text{Gavin} = 50x + 10 \times x_1 + 10 \times x_2 = 200 \text{-----(3)}$$

Solving we get $x_1 = 2$ hours, $x_1 = 3$ hours, $x_2 = 3$ hours. Total = 8 hours.

75. Ans. B.

Time taken to meet for the first time anywhere on the track

$$= \text{length of the track} / \text{relative speed}$$

$$= 600 / 15 + 10$$

$$= 24 \text{sec}$$

76. Ans. D.

$$\text{Required percentage} = \{(40 - 35)/35\} \times 100\% = 14\frac{2}{7}\%$$

77. Ans. B.

Let the selling price in be local market be Rs. x

Selling price of exported = 130% of $x = 1.3x$

year	Revenue from export(in thousands)	Revenue from local market(in thousands)
2011	39x	50x
2012	52x	70x
2013	45.5x	65x
2014	52x	50x
2015	65x	80x

So in 2014 the revenue is more.



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78. Ans. E.

Total number of two wheelers sold from 2011 to 2015 is 80, 110, 100, 90, and 130 respectively. 100 is 25% more than 80.

So in the year 2013 the number of two wheelers sold is 25% more than in 2011.

79. Ans. C.

In 2014, the number of two wheelers exported is $\frac{4}{5}$ i.e. 80% of that sold in the local market but in other years it is less than $\frac{4}{5}$. So the required percent is highest in 2014.

80. Ans. B.

The number of two wheelers sold in the local market in 2010=40

The number of two wheelers exported in 2010=25
Percent= $\frac{25 \times 100}{40} = 62.5\%$

81. Ans. C.

PCA means Prompt Corrective Action which is imposed by RBI imposed on banks with a higher percentage of Non Performing Assets. Banks under PCA should make all-out efforts to recover and reduce NPA lest face the further future action of RBI.

To ensure that banks don't go bust, RBI has put in place some trigger points to assess, monitor, control and take corrective actions on banks which are weak and troubled. The process or mechanism under which such actions are taken is known as **Prompt Corrective Action, or PCA**.

82. Ans. B.

Kaimur Wildlife Sanctuary is located in **Kaimur District** of Bihar and is near Bhabhua.

Note:-It is the **largest sanctuary** in the state and occupies an area of about 1342 km².

83. Ans. D.

Mahesh Kumar Jain has been appointed as fourth deputy governor for a three-year term.

The fourth deputy governor's post has been vacant since SS Mundra retired in July 2017.

Note:

* Mahesh Kumar Jain was appointed as the CEO of IDBI Bank in 2017 and was previously CEO at Chennai based Indian Bank between November 2015 and March 2017.

84. Ans. C.

'The Crisis Within Knowledge and Education in India' has been authored by Ganesh Devy.

This book is a reflection by scholar and language researcher G.N. Devy on the acute crisis of knowledge and education in our country that has been caused by the double wounds of the varna-divide and colonialism, which left a painful legacy.

85. Ans. B.

India signed a loan agreement of **200-million Dollar** with the World Bank for the National Nutrition Mission (POSHAN Abhiyaan) for **315 districts** across all states and union territories. It would help the government in achieving its goal of reducing stunting in children 0-6 years of age from 38.4% to 25% by the year 2022.

Note:

- The POSHAN Abhiyaan, an overarching scheme for holistic nourishment, was launched by Prime Minister Narendra Modi in March this year at Jhunjhunu, Rajasthan.
- POSHAN Abhiyaan (National Nutrition Mission) is scheme of Ministry of Women and Child Development.
- **POSHAN stands for** - Partnerships and Opportunities to Strengthen and Harmonize Actions for Nutrition in India.

86. Ans. C.

* **Ministry of Tourism**, Government of India has launched 'Swadesh Darshan' scheme to fund development of theme-based tourism circuits in India.

* Under the Swadesh Darshan scheme, thirteen thematic circuits have been identified, for development namely: North-East India Circuit, Buddhist Circuit, Himalayan Circuit, Coastal Circuit, Krishna Circuit, Desert Circuit, Tribal Circuit, Eco Circuit, Wildlife Circuit, Rural Circuit, Spiritual Circuit, Ramayana Circuit and Heritage Circuit.

* Krishna Circuit is among the thirteen thematic circuits identified for development under Swadesh Darshan Scheme.

* Twelve destinations have been identified for development under Krishna circuit namely Dwarka (Gujarat), Nathdwara, Jaipur & Sikar (Rajasthan), Kurukshetra (Haryana), Mathura, Vrindavan, Nandgaon, Gokul, Barsana, & Govardhan (Uttar Pradesh) and Puri (Odisha).

87. Ans. B.

On 4th June 2018, Reserve Bank of India conducted Financial Literacy Week to focus on creating awareness among customers of banks. The theme of the Financial Literacy Week is '**Customer Protection**'.

88. Ans. E.

Ferrari's Sebastian Vettel dominated the Canadian Grand Prix to retake the championship lead as Lewis Hamilton could finish only fifth for Mercedes. It was Vettel's 50th career Formula One victory. Mercedes' Valtteri Bottas finished second and Red Bull's Max Verstappen third.

89. Ans. C.

Hum hai na - is the tagline of ICICI bank. Founded in 1994, it became the first Indian bank to be listed in the New York Stock exchange in 2000.

90. Ans. C.

Paraguay will have a woman President (interim) Alicia Pucheta for the first time in its history after outgoing leader Horacio Cartes stepped down. The parliament is due to confirm Cartes's resignation and proclaim Pucheta as interim president.

91. Ans. A.

ABRS stands for Aadhar Based Remittance Service. Under this scheme, remitter can initiate IMPS transaction even using the beneficiary's AADHAAR number, which acts as a financial address and is linked to the beneficiaries account number.

92. Ans. B.

The International Maritime Organization (IMO), formed in 1959, is the specialized agency of United Nations responsible for improving maritime safety and preventing pollution from ships. Its headquarters is located in **London**, United Kingdom.

93. Ans. B.

US-based Kathak dancer Anindita Anaam has been honoured with the prestigious 'Shri Jayadev Rastriya Yuva Pratibha Puraskar 2018' for outstanding contribution to the field of art. Anindita is a regular performer and Kathak instructor in Wisconsin with an aim to popularise the dance form globally. She has been a part of many cultural festivals in which she blended traditional Kathak with other world forms like jazz and ballet.

94. Ans. D.

India batswoman Mithali Raj has become the first Indian cricketer to amass 2000 runs in Twenty20 Internationals (T20I). She has also become the first Indian cricketer (Men and Woman's) to complete this record.

95. Ans. B.

On April 2018, Indian Space Research Organization (ISRO) successfully launched the IRNSS 1I navigation satellite from the Satish Dhawan Space Centre at Sriharikota, Andhra Pradesh. 'IRNS-1I' satellite replaced **IRNSS 1A satellite** after the failure of the IRNSS 1H mission in August 2017

Note:

• The **Indian Regional Navigation Satellite System (IRNSS)** is a constellation of seven satellites that provides indigenously developed regional GPS services called **NavIC**.

96. Ans. C.

Fugitive Economic Offenders Bill, 2018 which will empower authorities to attach and confiscate properties and assets of economic offenders like loan defaulters who flee the country.

A fugitive offender term applies only to those who owe or more than **Rs. 100 crores** in the domestic territory of India.

97. Ans. D.

Karnataka Vikas Grameena Bank (KVGB) launched the '**Vikas She Plus**', a loan scheme for women to take up new ventures or for expanding/modifying the existing enterprises.

Note:

• The maximum loan amount under the scheme is **Rs. 2 lakhs** with a repayment period of 60 months.

98. Ans. C.

Indian swimmer Sandeep Sejwal won the gold medal in men's 50 meters breaststroke event at the Singapore National Swimming Championships in Singapore.

Sandeep broke the Singapore meet record with a timing of 27:59 seconds to win gold.

99. Ans. B.

BFD stands for Best Finger Detection. The best finger of a resident is the one that has the highest probability of matching. While using AePS, operator checks the resident's fingers and captures all fingers from both hands to determine the best fingers. Once the best attempt is captured for all fingers, it is then compared with the biometric data stored with UIDAI CIDR. Based on the response, results are communicated indicating the best fingers of the resident with the rankings in decreasing order.

100. Ans. B.

Kanwar Lake Bird Sanctuary is located at Begusarai, **Bihar**. It is Asia's largest freshwater oxbow lake.

101. Ans. E.

Ans. E

The **United Nations Children's Fund (UNICEF)** is a United Nations Program **headquartered in New York City** that provides long-term humanitarian and developmental assistance to **children** and **mothers** in developing countries.

102. Ans. E.

The union government has added ten Iconic sites in the third phase (1st phase- 2016 & 2nd- 2017) of its flagship project of Swachh Iconic Places (SIP0, under Swachh Bharat Mission.

The sites are Raghavendra Swamy Temple (Kurnool in Andhra Pradesh), Hazarduari Palace (Murshidabad, in West Bengal), Brahma Sarovar Temple (Kurukshetra in Haryana), Vidur Kuti (Bijnor in Uttar Pradesh) and Nagvasuki Temple (Allahabad in Uttar Pradesh) and Mana village (Chamoli in Uttarakhand) and Kanvashram (in Uttarakhand).

103. Ans. C.

UTTAM stands for – Unlocking Transparency by Third Party Assessment of Mined Coal (uttam.coalindia.in).

The Ministry of Coal and Coal India Limited (CIL) developed UTTAM which aims to provide an App for all citizens and coal consumers to monitor the process of Third Party Sampling of coal across CIL subsidiaries.

104. Ans. E.

Justice (Retd.) G. Rohini is the head of the commission to examine the issue of Sub-categorization within Other Backward Classes (OBCs) in the Central List.

The Union Cabinet has approved the final extension of tenure (till 31st July 2018) of the Commission constituted to examine the issue of Sub-categorization within OBCs in the Central List.

105. Ans. D.

Polish author 'Olga Tokarczuk' has won the Man Booker International Prize in 2018 for fiction for her novel 'Flights'. The USD 67,000 award is split evenly between the writer and her translator, Jennifer Croft.

106. Ans. A.

White label ATMs- White Label ATMs are those ATMs which set up, owned and operated by non-bank entities incorporated under Companies Act 1956.

- Brown label ATMs- Brown label ATMs are owned and maintained by service provider whereas bank whose brand is used on ATM takes care of cash management and network connectivity.
- Green label ATMs- These ATMs are provided specifically for Agricultural transactions.
- Orange Label ATMs- ATMs provided for Share Transactions.
- Yellow Label ATMs- o ATMs provided for E-commerce
- Pink label ATM- o ATM provided for women banking.

107. Ans. C.

RBI purchases (or sells) government securities to the general public in a bid to increase (or decrease) the stock of high powered money in the economy. This is known as "Open Market Operation

108. Ans. D.

It's on **Krishna River** that Nagarjuna Sagar dam is built across.

This dam is situated in between the Nalgonda and Guntur district which is in Andhra Pradesh, and is the **second biggest water reservoir in India**.

109. Ans. B.

National Payments Corporation of India (NPCI) has appointed **Dilip Asbe** as Managing Director and CEO of the organisation.

Before this appointment, Mr. Dilip Asbe was working as CEO-in-charge of NPCI.

110. Ans. B.

As per section 18 of Negotiable Instrument Act, 1881 where an amount is stated differently in figures and words in the cheque the banker will clear the cheque by taking in account, the amount stated in words to be the amount undertaken or ordered value to be paid to the customer.

111. Ans. A.

Bagdogra Airport is in Siliguri, West Bengal. Air traffic at Bagdogra crossed 1 million for the first time in 2014-15. This is one of the few airports in India with zero sales tax on aviation turbine fuel.

112. Ans. D.

The World Elder Abuse Awareness Day is observed across the globe on 15th June every year. It represents the one day in the year when the entire world voices its opposition to the abuse and suffering inflicted to some of our older generations.

113. Ans. D.

Bandar Seri Begawan formerly known as Brunei Town is the capital city of the Sultanate of Brunei. It is officially governed as a municipality.

114. Ans. C.

Brazil alone accounts for almost 25% of the world's sugar.

Top five countries are – Brazil, India, China, Thailand and Pakistan.

115. Ans. D.

Madhya Pradesh Chief Minister Shivraj Singh Chouhan has inaugurated 'School Chale Hum Abhiyan 2018' at Samanvay Bhavan in Bhopal to boost education and encourage children to enroll themselves in schools.

116. Ans. D.

Veteran journalist and editor of Srinagar based 'Rising Kashmir' newspaper was shot dead by unidentified gunmen outside his office in the Press Enclave area of Srinagar in Jammu & Kashmir. Bukhari was instrumental in organising several conferences for peace in the Kashmir Valley.

117. Ans. D.

The Constitution (122 Amend.) Bill, 2014 was introduced to amend the Constitution to introduce the Goods and Services Tax (GST).

118. Ans. C.

The Rajasthan Govt. has launched 'Nidaan' software for presumptive diagnosis and monitoring of seasonal and non-communicable diseases as well as the trends of ailments found in specific areas.

Note: It will facilitate online entries of as many as 46 diseases and healthcare services available for their treatment in different institutions.

119. Ans. A.

Periyar National Park is a protected area in the districts of **Idukki, Kottayam** and Pathanamthitta in **Kerala**, India.

Note:-It is notable as an elephant reserve and a tiger reserve.

120. Ans. A.

Minister of Textile Smriti Irani is elected to Rajya Sabha from Gujarat.

121. Ans. B.

As stated in the 1st para, "In Ptolemaic Egypt (305 B.C. to 30 B.C.), the region's prosperity was linked to the flood cycle of the Nile River, with regular flooding sustaining local agriculture." Hence, option B is correct.

122. Ans. A.

As stated in the 1st para, "A drier monsoon season could have reduced Nile flooding, leading to fewer crops and more food shortages and, ultimately, initiating a societal unravelling that led to the Ptolemaic dynasty's eventual collapse, the study authors wrote." Hence, option A is correct.

123. Ans. C.

As stated in the 2nd para, "When volcanoes erupt, they spew sulphur-rich gases in plumes that can extend into the stratosphere. These gases then oxidize and form particles called sulphate aerosols that can dramatically impact weather patterns such as monsoons, the study authors reported." Hence, option C is correct.

124. Ans. D.

As stated in the 3rd para, "Aerosols produced by a volcanic eruption in Iceland, for instance, could thereby sap the heat driving the African monsoon,

thus leading to less rain and reduced Nile flooding, Ludlow explained." Hence, option D is correct.

125. Ans. A.

As stated in the 4th para, "The nilometers confirmed that during years when there were volcanic eruptions, the average Nile response was lower flood heights, the researchers found." Hence, option A is correct.

126. Ans. E.

The word "knell" means sound of a bell or ringing of a bell and out of the given words, "Reverberation" has a similar meaning. "Discern" and "Descry" means sight or glimpse. "Entreat" means to plead. Hence, option E is correct.

127. Ans. C.

The word "repercussion" means consequence and out of the given words, "backlash" has a similar meaning. "Stratagem" and "Manoeuvre" means planning or operation. "Machination" means a plot or scheme. Hence, option C is correct.

128. Ans. C.

Since the preposition "with" is mentioned after the blank, only 'interaction' fits here. Interaction means reciprocal action or influence. Thus, option C is the correct answer.

129. Ans. A.

Usurped- take (a position of power or importance) illegally or by force

Denigrate- criticize unfairly

The answer to this is 'declined.' The word declined a reduction of something. The usage of the phrase 'while previously common' indicates that in the present, the opposite case exists. Thus, 'improved' and 'multiplied' can be eliminated. The phrase 'usurped/ denigrated in use' would be incorrect. Thus, option A is the correct answer.

130. Ans. E.

The answer to this is 'Visual.' The meaning of visual is related to seeing or sight. In this statement, it is seen that the game developers require feedback to get more information to improve the game. Therefore visual feedback is important because the users must see and observe the video game in order to critique it. Thus, option E is the most appropriate answer.

131. Ans. D.

The answer to this is 'encased.' The meaning of encased is enclosed or cover in a case or close-fitting surround. The phrase 'in a special cabinet' indicates that the arcade games are typically placed inside a cabinet which is encased, unlike other video games.



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Encumbered- hampered

Withheld- suppressed

132. Ans. B.

The most appropriate word is 'genres'. The meaning of genres is a style or category of art, music, or literature. The video games like other forms of art and music can be categorized in genres rather than levels and folders. Thus, option B is the most appropriate answer.

133. Ans. B.

The first statement has a clear meaning. Brain-drain refers to the emigration of highly trained or qualified people from a particular country, this includes both talent and qualification.

The second statement talks about improper criterion of employee selection which has not been implicitly mentioned in any of the statements.

The third statement is exactly opposite in meaning to the first statement since it says that the two effects are a consequence of the preference for talent.

"Fallout" means adverse effects and "predilection" means fondness or liking.

Attrition means the gradual reduction of a workforce by employees leaving and not being replaced rather than by redundancy. Kept up means maintained. The sentence is incomplete for comparison since it doesn't talk about the choice of qualification or talent.

Hence, the answer is 1 and 3.

134. Ans. C.

Statement 3 and 4 express opposite ideas. Empirical means based on observation and experience and its opposite is 'theoretical'. Since statement 3 states that AI is based in empiricism and statement 4 negates the fact, option C is the correct answer.

135. Ans. D.

Statements 1 and 4 express the opposite ideas. Obsolete means out of date. Statement 1 states that TD is gaining attention in the Western business, whereas, statement 2 states that it is becoming obsolete. Thus, option D is the correct answer.

136. Ans. D.

One cannot be a priest, grandfather or emperor at a school, thus, options A, B and E can be eliminated. In the second blank, we need a word which conveys the idea that the mother looked after/ managed the estate. Thus, the feminine noun "administratrix" fits here. So, 'administrator' is an appropriate fit for the first blank. Thus, option D is the correct answer.

137. Ans. E.

In the second blank, the word "heir" should fit as an heir to the throne means the successor of a monarchical regime. "Heiress" fits appropriately in the first blank. Thus, option E is the correct answer. 'Princess' may fit in the first blank, but 'prince' is inappropriate in the second.

138. Ans. C.

The usage of the adjective "monastic" indicates that the mentioned people lived in a monastery. Thus, monk and nun is the most appropriate pair.

139. Ans. A.

Statement (ii) is factually incorrect. The passage mentions IP to be the one that defines packet structures that encapsulate the data to be delivered. Statement (iii) is also in contradiction with the passage. As per the passage, when Vint Cerf and Bob Kahn introduced Transmission Control Program in 1974, IP was the connectionless datagram service, while the sentence refers to TCP for being the connectionless datagram service. Statement (i) is correct and encapsulates almost all the important roles played by Internet Protocol. Therefore, option A is the correct answer.

140. Ans. C.

Statement (i) is wrong as it distorts the facts mentioned in the passage. It mentions the discovery to be intentional, while the passage mentions that the proof came through a serendipitous accident. Statement (ii) is wrong as well, as it mentions the domination of bacteria over moulds, while the passage mentions the case to be vice-versa. Statement (iii) summarises the passage accurately and implies what the passage conveys. As statement (iii) is the only correct summary, option C is the required answer.

141. Ans. B.

The passage mentions the Japanese art kintsugi and the philosophy associated with it. Statement (i) is wrong as it mentions that Wabi-sabi is the art of repairing broken pottery, which, as per the passage, is Kintsugi. Statement (iii) mentions the art correctly but is still wrong as it presents a misleading interpretation of the art. Statement (ii) correctly mentions both the practice and the philosophy behind the art. As statement (ii) is the only one that summarises the passage, option B is the correct answer.

142. Ans. A.

'Lest' is a conjunction used to mention a condition. It means 'in case'. Using it in the sentence would imply that in case the mentioned event took place, the concerned people were to follow a given path.



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Statement III mentions the speculation that market might fluctuate, and the statement I mentions the reluctance of traders to invest due to the speculations. Therefore, I and III can be combined using the connector 'lest'. Statement II gives minute details about a couple of policies but is not a condition influencing either of the other two statements. Therefore, option A is the correct answer.

New statement:

Lest the latest budget and the changes introduced by the government completely change the economic structure of the nation, the traders will become increasingly reluctant to invest in the stock market.

143. Ans. B.

'Since' can be used as a conjunction to state a reason. Among the given sentences, the statement I gives a cause and III states the reason. Statement II, on the other hand, valorises wars and does not present a valid cause for III, which negates the idea of war. Thus, option B is the correct answer.

New statement:

Since war historically has interrupted the flow of consumer goods, preserving our hard-earned possessions provides an additional disincentive to war.

144. Ans. A.

'Although' means in spite of something. So the two statements should be such that they present a contrast. Here statement III is completely irrelevant and cannot be associated with any sentence. Statements II and II can be connected as even though Miss Sullivan was amused when mistakes were made in the published articles, she made sure that all entries went into the book.

New statement:

Although Miss Sullivan is rather amused than distressed when someone, even one of her friends, makes mistakes in published articles about her and Miss Keller, still she sees that Miss Keller's book should include all the information that the teacher could at present furnish.

145. Ans. D.

The usage of the definite article 'the' before uncle suggests that there is a specific uncle in relation to the people being talked in the blanks. So, the best relationship here would be "nephew" and "niece" as they refer to the son and the daughter respectively of one's brother/sister.

146. Ans. A.

The mention of the 'wedding ring' suggests that the marriage has not yet taken place, but in all probability, the man is engaged. This eliminates option C. Thus, "fiancee" is an appropriate word for the first blank. "Fiance" automatically fits in the second blank.

Fiancée- a woman to whom a man is engaged to be married

Fiancé- a man to whom a woman is engaged to be married

147. Ans. A.

Statement (ii) is completely out of context. As per the passage, the Great Depression was related to the market crash and falling economy, and not with the literal depression. Further, the passage does not specifies any group which suffered the most from the depression. Statement (iii) factually incorrect, as it specifies the Great Depression to have occurred after the second world war, which is incorrect. Statement (i) is correct and it encapsulates what the passage implies. As statement (i) is the only one which is correct, therefore option A is the correct answer.

148. Ans. D.

Statement (i) is mildly wrong as it makes the assumption that section 377 has already been overturned. The passage merely mentions the ruling of Supreme court against the section, but amendments are left to the parliament. Hence, statement (i) is factually wrong. Statement (ii) mentions the ruling and that it may influence the parliament into amending section 377, which is what the passage hints at. Statement (iii) mentions that after many years, the right of the LGBT community are being realized and that section 377 might soon be overturned. This is infact what the passage implies as well. As both statements (ii) and (iii) are correct, option D is the correct answer.

149. Ans. B.

Refer to the following statement of the passage, "The US economy is fueled by abundant natural resources, a well-developed infrastructure, and high productivity." Number of Immigrants has not been related to the economic success anywhere in the passage. Hence the correct answer is option B.

150. Ans. C.

Refer to the following statement of the passage, "The U.S. is the world's third largest producer of oil and natural gas." Hence the correct answer is option C.



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151. Ans. A.

Refer to the following statement of the passage, "The labor market has attracted immigrants from all over the world and its net migration rate is among the highest in the world." Hence the correct answer is option A.

152. Ans. B.

Refer to the following statement of the passage, "It is currently the largest trading nation in the world as well as the world's second largest manufacturer, representing a fifth of the global manufacturing output." As can be seen from the passage, the US produces 20% of the global manufacturing output alone. Hence the correct answer is option B.

153. Ans. B.

Refer to the following statement of the passage, "The U.S. dollar is the currency most used in international transactions and is the world's foremost reserve currency, backed by its science and technology, its military, the full faith of the US government to reimburse its debts, its central role in a range of international institutions since World War II and the petrodollar system." Hence the correct answer is option B.

154. Ans. B.

Refer to the following statement of the passage, "The US economy went through an economic downturn following the financial crisis of 2007–08, with output as late as 2013 still below potential according to the Congressional Budget Office." Hence the correct answer is option B.

155. Ans. C.

The passage touches upon all the topics mentioned but the larger context talks about the US economy and where it stands in today's world and the downturn it went through, hence the correct answer is option C.

156. Ans. C.

The word 'range' in option A can only be used if there are two values provided i.e. a lower and an upper value between which a range can be decided. But over here we only have a single value and thus cannot use the word range. Hence, option A is incorrect.

In option B the word 'extent' is not defining the exact value of the prediction that is being made. It's just defining the scale or magnitude of the prediction. Therefore, we eliminate option B.

In option C the word 'accuracy' is appropriate as it defines the exactness of the prediction that is being made. We can say that 95% is a precise value of the prediction. Thus, we can consider option C to be a suitable response and keep it on hold.

Option C makes the phrase sound 'The University of Chicago Medicine colleagues have predicted the 'inpatient mortality' approximately around of 95 percent' which makes no sense. Thus, we eliminate option D.

Option E is grammatically incorrect and thus we eliminate it as well.

Hence, the correct response is option C.

157. Ans. B.

The article deals with healthcare as a subject and the sentence speaks about making assumptions by a computer system. Therefore, 'clinical predictions' in option B appears to be the most accurate option to fill the blank and thus, we keep it on hold.

Option A tells about making 'logical estimations' which is irrelevant to the given content. Therefore, we ignore option A.

Option C and D doesn't clearly specify what kind of approximations are being made. There is no mention about the subject on which the approximations are made. Hence, we eliminate option C and D as well.

Option E talks about calculating measurements which also isn't relevant to the content. Therefore, we eliminate option E as well.

Hence, the correct response is option B.

158. Ans. E.

Option A is grammatically as the phrase 'of its facility' must be preceded by the word because. Hence, we eliminate option A.

Option B makes the sentence sound 'In a blog, Google calls its program a "good listener" as its efficient to gather the patient's data including their ongoing treatments and notes', which is improper. Thus, we ignore this option.

Option C and D are too much specific and can't be judged from the given content. Therefore, we eliminate them as well.

Option E is appropriate as the word 'capability' tells that it is able to perform different tasks in an efficient manner. Hence, we choose option E as the suitable one.

159. Ans. B.

In the given statement, there is no mention of any problematic situation which needs to be combated. Therefore, option A is negligible and thus, we eliminate it.

Option B appears to be correct based on the structure of the sentence and thus, we keep it on hold.

Option C, D and E appear to be quite irrelevant and thus, we eliminate them.

Hence, we choose option B as the most suitable one.

160. Ans. E.

The phrase 'using prevention technique' in option A is technically incorrect as the techniques described don't fall under the category of prevention techniques. Thus, we eliminate option A.

Option B and C both are grammatically incorrect, so we eliminate them as well.

Option D is inappropriate as the content described aren't problems and don't make any sense at all and thus, we eliminate it.

The statement is about protection of data and thus 'with security measures' in option E perfectly fits the blank.

Hence, we choose option E.

161. Ans. D.

दिए गए परिच्छेद के अनुसार, सरकार ने किफायती आवास की चुनौतियों को निपटने के लिए सबसे पहले राष्ट्रीय आवास नीति (1988) की घोषणा की। उसके बाद केन्द्र में सरकार बदलने के बाद 1994 में संशोधित नीति आई और 1998 में नई आवास एवं पर्यावास नीति की घोषणा की गई।

162. Ans. B.

दिए गए परिच्छेद के अनुसार, आवास भारतीय अर्थव्यवस्था के लिए महत्वपूर्ण क्षेत्र है क्योंकि यह 269 अन्य उद्योगों से जुड़ा हुआ है। अतः विकल्प (b) उचित विकल्प होगा।

163. Ans. B.

दिए गए परिच्छेद के अनुसार, केन्द्र सरकार ने सबके लिए आवास मिशन, जिसे प्रधानमंत्री आवास योजना भी कहा जाता है, के तहत 305 शहरों व नगरों को चिन्हित किया है। इसके अंतर्गत 2022 तक शहरी गरीबों के लिए 2 करोड़ घर बनाने का लक्ष्य है।

164. Ans. D.

दिए गए परिच्छेद के अनुसार, 2007 में एक नई नीति 'राष्ट्रीय शहरी आवास' एवं 'पर्यावास नीति' की घोषणा की गई। इस नीति में सभी के लिए किफायती आवास का लक्ष्य प्राप्त करने हेतु विभिन्न प्रकार के सार्वजनिक-निजी साझेदारी को बढ़ावा देने की बात कही गई। अतः विकल्प (d) उचित विकल्प होगा।

165. Ans. C.

दिए गए परिच्छेद के अनुसार, शहरी विकास मंत्रालय का प्रमुख मिशन स्मार्ट सिटी मिशन (एससीएम) है जिसका लक्ष्य उन शहरों को बढ़ावा देना है, जिनमें मूलभूत बुनियादी ढांचा उपलब्ध होता है और स्मार्ट तरीकों का प्रयोग कर अपने नागरिकों को अच्छी गुणवत्ता का जीवन प्रदान किया जाता है।

166. Ans. B.

दिए गए परिच्छेद के अनुसार, औद्योगिकी कामगारों और आर्थिक रूप से कमजोर वर्ग के लिए एकीकृत सब्सिडी युक्त आवासीय योजना (1952) और कम आय वर्ग आवासीय योजना (1956)।

167. Ans. D.

क्रेताओं को विवेकहीन डेवलपर्स से बचाने के लिए भारत सरकार द्वारा रियल एस्टेट (विनियम व विकास) अधिनियम, 2016 नामक महत्वपूर्ण कानून 1 मई, 2017 को लाया गया।

168. Ans. E.

दिए गए परिच्छेद के अनुसार, पूर्ववर्ती आवास एवं शहरी गरीबी उन्मूलन मंत्रालय द्वारा गठित तकनीकी समूह, 2012-17 के अनुसार, 187.8 लाख मकानों की कमी है। अतः विकल्प (e) इनमें से कोई नहीं सही उत्तर होगा, क्योंकि परिच्छे में 187.8 लाख है जो विकल्प में मौजूद नहीं है।

169. Ans. D.

दिए गए परिच्छेद में 'सृजन' का विलोम शब्द 'विनाश' होगा। सृजन का अर्थ होता है बनाना तथा विनाश का अर्थ होता बिगड़ना।

170. Ans. A.

दिए गए परिच्छेद का उपर्युक्त शीर्षक सरकार को 'आवास मुहैया' कराना है। इस परिच्छेद में सरकार द्वारा आवास योजना को बढ़ावा दिया गया है। 'आवास' भारतीय अर्थव्यवस्था के लिए महत्वपूर्ण क्षेत्र माना गया है क्योंकि यह 269 अन्य उद्योगों से जुड़ा हुआ है। अतः परिच्छेद के अनुसार इस परिच्छेद का उपर्युक्त शीर्षक आवास मुहैया कराना है।

171. Ans. B.

दिए गए विकल्पों में विकल्प B में 'मन' के स्थान पर 'कर्तव्य' उचित शब्द होगा जो वाक्य को अर्थपूर्ण बनाता है, क्योंकि यहां नागरिक के अधिकारों और कर्तव्यों के द्वारा ही समाज में परिवर्तन तेजी से लाया जा सकता है।

172. Ans. A.


वाक्य के खण्ड (A) में 'रामायण के कथा' के स्थान पर 'रामायण की कथा' शब्द का प्रयोग उचित होगा।

173. Ans. D.

यहाँ पर 'केवल' अनावश्यक है। अतः उपर्युक्त वाक्य 'इस समय मुझको मात्र सौ रुपये चाहिए' होगा।

174. Ans. A.

दिए गए वाक्य में 'हमारे समीप' के स्थान पर 'हमारे पास' होना वाक्य को उचित अर्थपूर्ण बनाता है।



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175. Ans. E.

दिए गए वाक्य में किसी प्रकार का वर्तनी या त्रुटि नहीं पाया गया है।
अतः विकल्प E इसका सही उत्तर होगा।

176. Ans. C.

साहस और आत्मविश्वास के साथ जीना ही सच्चा जीवन है- साहसी व्यक्ति कभी-भी अपना कर्म नहीं छोड़ता-

एक बार साहस से फिर प्रयत्न करता है-

और दुराशा उसके पास तक नहीं फटकती-

ऐसे ही व्यक्ति अपने राष्ट्रव समाज के नेता होते हैं। इस प्रकार सही क्रम- व र य ल होगा। अतः विकल्प (C) सही उत्तर होगा।

177. Ans. A.

भाषा को सीखना उसके साहित्य को मानना है-

और साहित्य को जानना मानव-एकता को स्वानुभूति है-

जब हम साहित्य के स्वर में बोलते हैं तब वे स्वर दुस्तर समुद्रों पर सेतु बाँधकर- दुर्लभ पर्वतों को राजपथ बनाकर- मनुष्य की सुख-दुःख की कथा मनुष्य तक अनायास पहुँचा देते हैं।

इस प्रकार सही क्रम है- र य ल व। अतः (A) सही उत्तर होगा।

178. Ans. E.

रिपोर्टाज मूलतः फ्रांसीसी शब्द है और अंग्रेजी के 'रिपोर्ट' शब्द का पर्यायवाची तथा साहित्यिक नाम है-

रिपोर्टाज में किसी घटना का इस प्रकार वर्णन किया जाता है कि पाठक उससे प्रभावित हो जाता है-

रिपोर्टाज केलेखक को अपने वर्ण विषय का पूर्ण ज्ञान होता है-

वह इस प्रकार लिखता है कि वह जो कुछ लिख रहा है मानो उसका आँखों देखा ही हो-

इसमें कुछ महत्वपूर्ण घटनाओं तथा पाठकों की विशिष्टताओं का निजी सूक्ष्मनिरीक्षण के आधार पर मनोवैज्ञानिक तथा विश्लेषण होता है-

इसकी शैली विवरणात्मक तथा वर्णनात्मक होती है, जिसमें सरलता, रोचकता, आत्मीयता तथा प्रभावपूर्णता का विशेष महत्व होता है।

179. Ans. C.

यदि वह विज्ञान का विद्यार्थी है-

तो वह कुशल शिल्पी बन सकता है-

यदि वह संस्कृत का आचार्य शास्त्री है-

तो वह पौरोहित्य या अध्यापन का कार्य कर सकता है-

किन्तु दोनों दूसरों का उपकरण ही बन सकते हैं-

और समाज और राजनीति के संचालन में वह अपने को असमर्थ पाते हैं। इस प्रकार सही क्रम है-

ल य व र। अतः विकल्प (C) सही उत्तर होगा।

180. Ans. D.

नखधर मनुष्य अब एटम बम पर भरोसा करके आगे की ओर चल पड़ा है- पर उसके नाखून अब भी बढ़ रहे हैं-

अब भी प्रकृति मनुष्य को उसके भीतर वाले अस्त्र से वंचित नहीं कर सकती है- तुम्हारे नाखून को भुलाया नहीं जा सकता-

अब भी वह याद दिला देती है कि- तुम वही लाख वर्ष पहले के नख-दंतावलम्बी जीव हो, पशु के साथ एक सतह पर विचरने वाले और चरने वाले। इस प्रकार सही क्रम है-

ल र व य। अतः विकल्प (D) सही उत्तर होगा।

181. Ans. B.

दिए गए विकल्पों में विकल्प (b) 'बहुमूल्य' का वर्तनी गलत है।

अतः शुद्ध वर्तनी होगा- 'बहुमूल्य' है। बहुमूल्य शब्द का अर्थ होता है अधिक मूल्यवान।

182. Ans. E.

दिए गए विकल्प में सभी शब्द वर्तनी की दृष्टि से शुद्ध हैं।

अतः विकल्प (E) उत्तर होगा।

183. Ans. A.

दिए गए विकल्पों में विकल्प (A) 'पुण्यतिथि' का वर्तनी गलत है।

अतः शुद्ध वर्तनी होगा- 'पुण्यतिथि'। पुण्यतिथि का अर्थ होता है मरने वाली तिथि होती है।

184. Ans. D.

दिए गए विकल्पों में विकल्प (d) 'विपत्तिजनक' का वर्तनी गलत है।

अतः शुद्ध वर्तनी होगा- 'विपत्तिजनक'। विपत्तिजनक का अर्थ होता है विपत्ति पैदा करनेवाला।

185. Ans. C.

दिए गए विकल्प (c) में 'अगन्तुक' शब्द में त्रुटि है। अतः सही

शब्द 'आगन्तुक' होगा। आगन्तुक आगन्तुकका अर्थ होता है अचानक आ जानेवाला।

186. Ans. B.

दिल्ली सल्तनत के बहुत कम मुस्लिम शासकों ने दक्खिन भारत

की ओर ध्यान दिया। वाक्य सल्तनत, शासन और सत्ता को

व्यक्त कर रहा है इसलिए दिए गए विकल्पों में से शासकों उचित विकल्प है।

187. Ans. A.

अलाउद्दीन खिलजी ने दक्खिन भारत को जीतने का प्रयत्न

अवश्य किया था। इस वाक्य से दूसरा वाक्य है जो दर्शाता है कि

अलाउद्दीन खिलजी ने दक्खिन भारत को अपने राज्य में नहीं

मिलाया था यानी कि उसने प्रयास भर किया था लेकिन दी

हासिल नहीं हुई थी इसलिए सभी विकल्पों में से सही उत्तर

'प्रयत्न' है।



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188. Ans. B.

मौहम्मद तुगलक ने दक्खिन भारत में विद्रोहों के दमन का यत्न किया था पर वह असफल रहा था। वाक्य में 'दमन का यत्न' के बाद 'पर या लेकिन' शब्द का इस्तेमाल दर्शाता है कि मौहम्मद तुगलक सफल नहीं रहा था इसलिए असफल विकल्प सही है।

189. Ans. B.

बहमनी राज्य की स्थापना मूलतः एक ब्राह्मण द्वारा की गई थी। स्थापना और निर्माण शब्दों का उपयोग अन्य स्थानों पर भी किया गया है इसलिए दिए गए विकल्पों में से स्थापना शब्द वाक्य पूर्ण करने हेतु उचित है।

190. Ans. E.

बहमनी राज्य में मुसलमानों की संख्या बहुत कम थी, अतः अन्य देशों के मुसलमानों को आमंत्रित किया गया था। वाक्य के अनुसार, मुसलमानों की संख्या को बढ़ाने के लिए अन्य देशों के मुसलमानों को बुलाया गया। उपरोक्त विकल्पों में से वाक्य को उचित रूप से और व्याकरण के अनुसार केवल आमंत्रित शब्द ही संदर्भित कर रहा है।

191. Ans. D.

शासन में विदेशियों को प्रमुख स्थान दिया गया। उपरोक्त विकल्पों में से वाक्य को उचित रूप से और व्याकरण के अनुसार केवल स्थान शब्द ही संदर्भित कर रहा है।

192. Ans. A.

इस भांति ये सभी शासक कट्टरवाद तथा इस्लामवाद के प्रतिनिधि बनकर शासन करने लगे थे। इस्लामवाद मुस्लिमों के धार्मिक विश्वास को दर्शाता है।

193. Ans. B.

जहां तक बहुसंख्यक हिंदू जनता के प्रति उनकी नीति का सम्बन्ध था। जनता या आबादी को दर्शाने के लिए हम प्रायः बहुसंख्यक शब्द का इस्तेमाल करते हैं।

194. Ans. C.

जहां तक बहुसंख्यक हिंदू जनता के प्रति उनकी नीति का सम्बन्ध था, वह प्रायः कटुता तथा विरोध की ही बनी रही। इस वाक्य में नीति को कटुता से संदर्भित किया है। इस वाक्य के लिए ऐसे शब्द का चुनाव करना है जो कटुता और नीति को व्यक्त करे। इसलिए विरोध शब्द उपरोक्त विकल्पों में से वाक्य को उचित है।

195. Ans. D.

वस्तुतः यह हिन्दुओं के लिए बड़ा गौरवपूर्ण इतिहास का पृष्ठ था। दक्खिन भारत में हिंदुओं ने मुसलमानों के लिए चुनौतियां खड़ी की थी इसलिए यह घटना हिंदुओं के लिए गौरवपूर्ण थी।

196. Ans. D.

दिए गए विकल्पों में 'अलक' बाल का समानार्थी शब्द है जबकि अन्य शब्द रोना के समानार्थी शब्द हैं। अतः विकल्प (d) इन सभी विकल्पों से भिन्न है।

(अलक, केश, कुन्तल, रोम, शिरोरूह, चिकुर, ये सभी बाल के समानार्थी शब्द हैं।)

197. Ans. B.

दिए गए विकल्पों में 'आख्यान' कथा का समानार्थी शब्द है जबकि अन्य शब्द 'आश्चर्य' का समानार्थी शब्द हैं। अतः विकल्प (b) इन सभी विकल्पों से भिन्न है।

(आख्यान, कहानी, वृत्तांत, इतिवृत्त, ये सभी 'कथा' के समानार्थी शब्द हैं।)

198. Ans. E.

दिए गए विकल्पों में 'तात' भाई का समानार्थी शब्द है जबकि अन्य शब्द 'भाग्य' का समानार्थी शब्द हैं। अतः विकल्प (e) इन सभी विकल्पों से भिन्न है। (तात, सहोदर, भातृ, बंधु, बान्धव, ये सभी 'भाई' के समानार्थी शब्द हैं।)

199. Ans. C.

दिए गए विकल्पों में 'खर' गधा का समानार्थी शब्द है जबकि अन्य शब्द 'हाथी' के समानार्थी शब्द हैं। अतः विकल्प (3) इन सभी विकल्पों से भिन्न है।

(खर, धूसर, चक्रीवाहन, रासभ, लम्बकर्ण ये सभी गधा के समानार्थी शब्द हैं।)

200. Ans. C.

दिए गए विकल्पों में 'गात' शरीर का समानार्थी /पर्यायवाची शब्द है जबकि अन्य शब्द 'दिन' के समानार्थी /पर्यायवाची शब्द हैं। अतः विकल्प (C) इन सभी विकल्पों से भिन्न है।

(गात, काया, तनु, देह, कलेवर, अंग, तन ये सभी शरीर के समानार्थी /पर्यायवाची शब्द हैं।)

201. Ans. D.

Speech recognition applications include voice user interfaces such as voice dialling (e.g. "Call home"), call routing (e.g. "I would like to make a collect call"), domestic appliance control, search (e.g. find a podcast where particular words were spoken), simple data entry (e.g., entering a credit card number), preparation of structured documents (e.g. a radiology report), speech-to-text processing (e.g., word processors or emails), and aircraft (usually termed Direct Voice Input).

202. Ans. A.

An **algorithm** is an effective method that can be expressed within a finite amount of space and time

and in a well-defined formal language for calculating a function.

203. Ans. E.

Downloading is a Process of a computer receiving information, such as a Web page, from a server on the Internet.

204. Ans. D.

A firewall is a **system designed** to prevent **unauthorized access** to or from a private network. Firewalls can be implemented in both **hardware** and **software** or a combination of both.

205. Ans. C.

In a web site, the "home" page refers to the first page. A **home page** or **index page** is the initial or main web page of a website. It is sometimes also called the **front page** or **main page** (by analogy with newspapers), or written as "**homepage**."

206. Ans. D.

Computers of the fourth generation (1971-1980) are used Very Large Scale Integrated (VLSI) circuits.

Note: VLSI circuits having about 5000 transistors and other circuit elements with their associated circuits on a single chip made it possible to have microcomputers of the fourth generation.

207. Ans. B.

A print out of the contents of the file on the computer. That is what the term 'hard copy' normally refers to.

208. Ans. C.

The operating system that is self-contained in a device and resident in the ROM is Embedded Operating System. An **embedded operating system** is a specialised OS for use in the computers built into larger **systems**.

Note: An **embedded system** is a computer that is part of a different kind of machine.

209. Ans. C.

Programs written in a **high-level language** must be translated into machine language by a compiler or interpreter.

210. Ans. B.

Random-access memory is a form of computer data storage. A random-access memory device allows data items to be accessed (read or written) in almost the same amount of time irrespective of the physical location of data inside the memory.

211. Ans. D.

To copy a cell, you would drag the cell border while simultaneously holding down the Ctrl key when the distance between cells is short and they are both visible in the window.

212. Ans. C.

The hexadecimal numeral system (**hex**) is a numeral system made up of 16 symbols (**base 16**). Hexadecimal uses the decimal numbers and includes six extra symbols.

Note:- It uses **sixteen distinct symbols**, most often the symbols **0–9** to represent values **zero to nine**, and A, B, C, D, E, F (or alternatively a, b, c, d, e, f) to represent values **ten to fifteen**.

213. Ans. C.

A family of computer models is said to be **compatible** if certain software that runs on one of the models can also be run on all other models of the family. The computer models may differ in performance, reliability or some other characteristic. These differences may affect the outcome of the running of the software.

214. Ans. C.

Until a computer can recognize handwriting, an input device must be digitizing devices.

215. Ans. A.

A **virus** is a small **infectious agent** that replicates only inside the living cells of other organisms.

Note: Viruses can infect all types of life forms, from animals and plants to microorganisms, including bacteria and archaea.

216. Ans. E.

After you've opened a window, you can maximize it to display full-screen. You can also minimize it so that it disappears from the desktop.

217. Ans. A.

The **Domain Name System** (DNS) is a hierarchical distributed **naming system** for computers, services, or any resource connected to the Internet or a private network.

218. Ans. C.

In electronics, a multiplexer (or mux) is a device that selects one of several analog or digital input signals and forwards the selected input into a single line. A multiplexer of 2^n inputs has n select lines, which are used to select which input line to send to the output.

219. Ans. D.

Integrated Services Digital Network (ISDN) is a set of communication standards for simultaneous digital transmission of voice, video, data, and other network services over the traditional circuits of the public switched telephone network.

220. Ans. A.

Computer-aided design (CAD) is the use of computer systems to aid in the creation, modification, analysis, or optimization of a design.

221. Ans. B.

Telnet is a session layer protocol used on the Internet or local area networks to provide a bidirectional interactive text-oriented communication facility using a virtual terminal connection. User data is interspersed in-band with Telnet control information in an 8-bit byte oriented data connection over the Transmission Control Protocol (TCP)

222. Ans. B.

A **primary key** is a key in a relational database that is **unique for each record**. It is a unique identifier, such as a driver license number, telephone number or vehicle identification number (VIN).

Note:- A relational database must always have one and only one primary key.

223. Ans. B.

An Excel worksheet is a single spreadsheet that contains cells organized by **rows** and columns.

Note:- A worksheet begins with **row number** one and column A. Each cell can contain a number, text or formula.

224. Ans. A.

Windows **Virtual Desktop Access** (VDA) is an **authorization strategy** that requires each device seeking access to a Windows **virtual desktop** in a virtual desktop infrastructure (VDI) to be licensed.

Note: The goal of Windows **Virtual Desktop Access** is to simplify licensing requirements in a virtual environment by licensing the devices that seek access to **virtual desktops**, instead of licensing the virtual desktops themselves.

225. Ans. E.

In Excel, move somewhere in a row you want to hide and press **Ctrl+9**. The entire current row is hidden and you don't need to select the entire row, just have your cursor somewhere in the row.

226. Ans. A.

Kernel is a central component of an **operating system** which acts as an interface between the **user applications** and the **hardware**. It is also called as **the heart** of the operating system.

227. Ans. E.

The user can do the **central align** to the **selected text** in Word by pressing "**Ctrl + E**" keys together.

228. Ans. C.

Extensible Markup Language (XML) is a markup language that defines a set of rules for encoding documents in a format that is both human-readable and machine-readable.

229. Ans. E.

In Excel Starter, a spreadsheet is called a worksheet, and worksheets are stored in a file called a workbook.

230. Ans. B.

Redundant Array of Independent Disks (RAID) is a technology that provides increased storage functions and reliability through redundancy.

Note: This is achieved by combining multiple disk drive components into a logical unit, where data is distributed across the drives in one of several ways called "**RAID levels**".

231. Ans. C.

Hybrid computers are computers that exhibit features of analog computers and digital computers.

The digital component normally serves as the controller and provides logical and numerical operations, while the analog component often serves as a solver of differential equations and other mathematically complex equations.

232. Ans. C.

Ping operates by sending **Internet Control Message Protocol** (ICMP) echo request packets to the target host and waiting for an ICMP echo reply.

Note:- Ping is a **computer network administration software** utility used to test the reachability of a host on an **Internet Protocol** (IP) network and to measure the round-trip time for messages sent from the originating host to a destination computer and back.

233. Ans. D.

A **Data diddling** (also called false **data** entry) occurs when someone with access to information of some sort changes this information before it is entered into a computer.

234. Ans. B.

A "process description" is defined as a general description of how a process happens, step by step. It does not tell the reader what to do; rather, it describes how something happens.

235. Ans. A.

FTP is better than HTTP as it has built in flow control. The control channel and data channels are independent of each other two separate TCP connections.

Note: FTP is the two-way systems as files are transferred back and forth between file server and workstation. Whereas http is a one-way system as files are transported only from the web server onto the workstation's browser.



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236. Ans. D.

A bridge joins two similar types of networks so that they look like one network.

237. Ans. B.

The basic building block of relational model is table or relation. A table is composed by rows (records) and columns (attributes) related tables are linked with each other using repeated columns. Relational database models can be represented the form of tables and relationship links among them.

238. Ans. B.

In computing, a data warehouse (DW or DWH), also known as an enterprise data warehouse (EDW), is a system used for reporting and data analysis. DWs are central repositories of integrated data from one or more disparate sources

239. Ans. C.

An **Internet Protocol address** (IP address) is a numerical label assigned to each device (e.g.,

Computer, printer) participating in a Computer network that uses the Internet Protocol for communication.

Note: An IP address serves two principal functions: host or network interface identification and location addressing. Its role has been characterized as follows: "A name indicates what we seek. An address indicates where it is

240. Ans. A.

Cipher locks are used to control access to areas of a facility that are sensitive. e.g airport research and development laboratories areas within financial institutions etc. A cipher lock may have four or five push buttons depending on the manufacture.
