

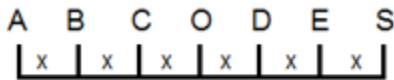
RBI Assistant Mains 2020 All India Mock Test (Solutions)

S1. Ans.(a)

Sol. Step 1.

From the information given in the question we will first determine the initial positions of all the persons. D stands third from the right end. D is an immediate neighbour of O and E, who stands on the immediate left of S. It means S is standing at the rightmost end and O is standing to the immediate left of D. E stands third to the right of C who is not an immediate neighbour of A.

So we have,



Initial Positions

Step 2.

Now we will determine their final positions,

S moved eight meters towards North to reach point L. Shortest distance between O and point L is ten meters.

By using Pythagoras theorem,

$$\text{The distance between O and initial position of S} = \sqrt{(10^2 - 8^2)} = 6$$

$$\text{So } 3x = 6$$

$$x = 2,$$

Proceeding with the remaining information,

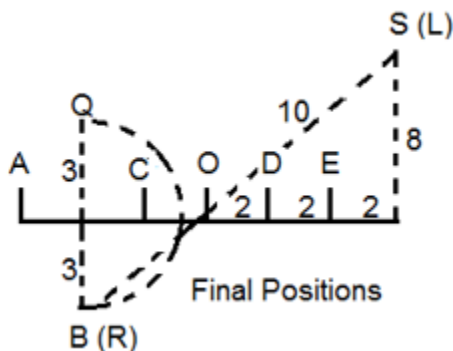
O is in line with point R and L. After moving a certain distance towards north B reached point Q. From point Q, B kept on moving in a circular path till he reached point R. Point R is to the south of initial position of B. Shortest distance between point R and L is fifteen meters it means shortest distance between R and O is five meters.

From Pythagoras theorem,

$$\text{Shortest distance between initial position of B and point R} = \sqrt{(5^2 + 4^2)}$$

$$= 3 \text{ meters.}$$

So we have,



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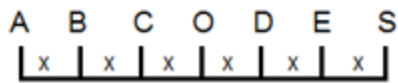
Starts February 21, 2020

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S2. Ans.(c)**Sol.** Step 1.

From the information given in the question we will first determine the initial positions of all the persons. D stands third from the right end. D is an immediate neighbour of O and E, who stands on the immediate left of S. It means S is standing at the rightmost end and O is standing to the immediate left of D. E stands third to the right of C who is not an immediate neighbour of A.

So we have,



Initial Positions

Step 2.

Now we will determine their final positions,

S moved eight meters towards North to reach point L. Shortest distance between O and point L is ten meters.

By using Pythagoras theorem,

The distance between O and initial position of S = $\sqrt{(10^2 - 8^2)} = 6$ So $3x = 6$ $x = 2$,

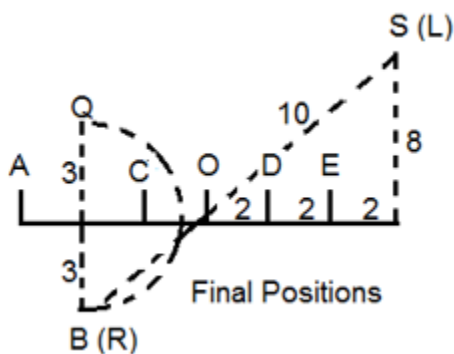
Proceeding with the remaining information,

O is in line with point R and L. After moving a certain distance towards north B reached point Q. From point Q, B kept on moving in a circular path till he reached point R. Point R is to the south of initial position of B. Shortest distance between point R and L is fifteen meters it means shortest distance between R and O is five meters.

From Pythagoras theorem,

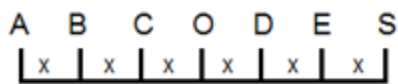
Shortest distance between initial position of B and point R = $\sqrt{(5^2 + 4^2)} = 3$ meters.

So we have,

**S3. Ans.(e)****Sol.** Step 1.

From the information given in the question we will first determine the initial positions of all the persons. D stands third from the right end. D is an immediate neighbour of O and E, who stands on the immediate left of S. It means S is standing at the rightmost end and O is standing to the immediate left of D. E stands third to the right of C who is not an immediate neighbour of A.

So we have,



Initial Positions

Step 2.

Now we will determine their final positions,

S moved eight meters towards North to reach point L. Shortest distance between O and point L is ten meters.

By using Pythagoras theorem,

$$\text{The distance between O and initial position of S} = \sqrt{(10^2 - 8^2)} = 6$$

$$\text{So } 3x = 6$$

$$x = 2,$$

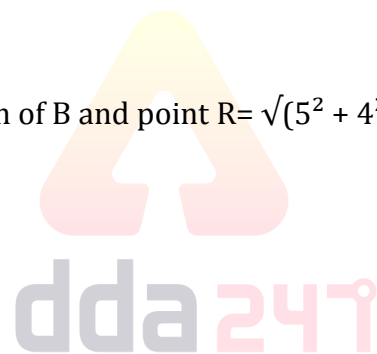
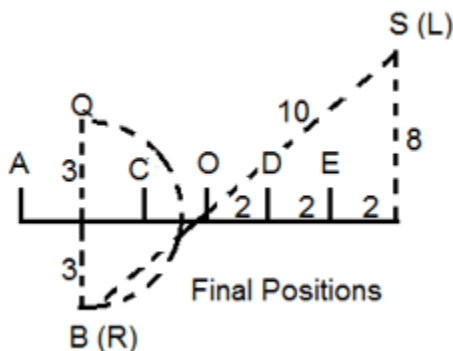
Proceeding with the remaining information,

O is in line with point R and L. After moving a certain distance towards north B reached point Q. From point Q, B kept on moving in a circular path till he reached point R. Point R is to the south of initial position of B. Shortest distance between point R and L is fifteen meters it means shortest distance between R and O is five meters.

From Pythagoras theorem,

$$\text{Shortest distance between initial position of B and point R} = \sqrt{(5^2 + 4^2)} = 3 \text{ meters.}$$

So we have,

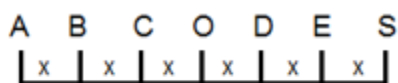


S4. Ans.(b)

Sol. Step 1.

From the information given in the question we will first determine the initial positions of all the persons. D stands third from the right end. D is an immediate neighbour of O and E, who stands on the immediate left of S. It means S is standing at the rightmost end and O is standing to the immediate left of D. E stands third to the right of C who is not an immediate neighbour of A.

So we have,



Initial Positions

Step 2.

Now we will determine their final positions,

S moved eight meters towards North to reach point L. Shortest distance between O and point L is ten meters.

By using Pythagoras theorem,

The distance between O and initial position of S = $\sqrt{(10^2 - 8^2)} = 6$

So $3x = 6$

$x = 2$,

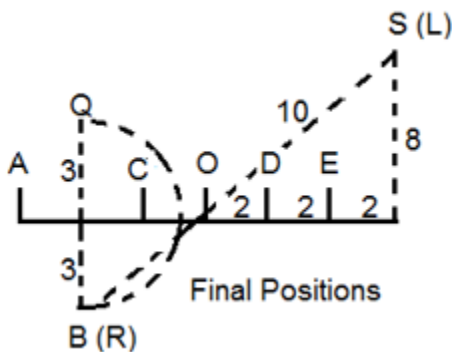
Proceeding with the remaining information,

O is in line with point R and L. After moving a certain distance towards north B reached point Q. From point Q, B kept on moving in a circular path till he reached point R. Point R is to the south of initial position of B. Shortest distance between point R and L is fifteen meters it means shortest distance between R and O is five meters.

From Pythagoras theorem,

Shortest distance between initial position of B and point R = $\sqrt{(5^2 + 4^2)} = 3$ meters.

So we have,



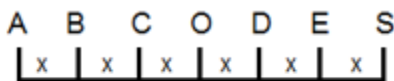
B will be equidistant from point R and Q at the instant when B is exactly between C and O.

S5. Ans.(c)

Sol. Step 1.

From the information given in the question we will first determine the initial positions of all the persons. D stands third from the right end. D is an immediate neighbour of O and E, who stands on the immediate left of S. It means S is standing at the rightmost end and O is standing to the immediate left of D. E stands third to the right of C who is not an immediate neighbour of A.

So we have,



Initial Positions

Step 2.

Now we will determine their final positions,

S moved eight meters towards North to reach point L. Shortest distance between O and point L is ten meters.

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By using Pythagoras theorem,

The distance between O and initial position of S = $\sqrt{(10^2 - 8^2)} = 6$

So $3x = 6$

$x = 2$,

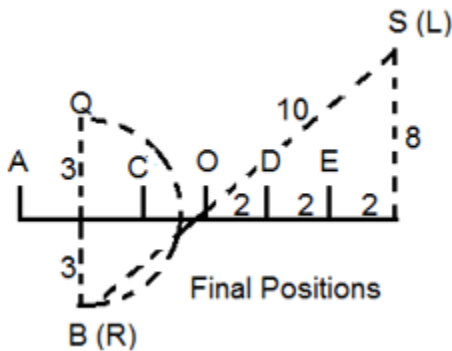
Proceeding with the remaining information,

O is in line with point R and L. After moving a certain distance towards north B reached point Q. From point Q, B kept on moving in a circular path till he reached point R. Point R is to the south of initial position of B. Shortest distance between point R and L is fifteen meters it means shortest distance between R and O is five meters.

From Pythagoras theorem,

Shortest distance between initial position of B and point R = $\sqrt{(5^2 + 4^2)} = 3$ meters.

So we have,



S6. Ans.(c)

Sol.

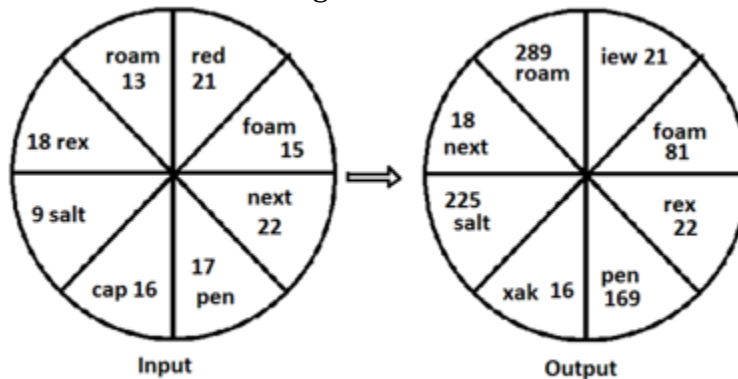
Following logic/operations were performed to obtain the output.

For words.

I. In the arrangement, if the numbers with the word in the opposite sectors are in odd – even form than the first and the last letter of the word are replaced with their opposite letter according to the alphabetical series.

II. In the arrangement, if the numbers with the words in the opposite sectors are in Odd – odd form than the squares of numbers are interchanged with each other in the opposite sectors.

III. In the arrangement if the numbers with the words in the opposite sectors are in even – even form then the words in the opposite sectors are interchanged.



'rex 22' is in the just opposite sector of the 'next 18' in the output.

S7. Ans.(e)

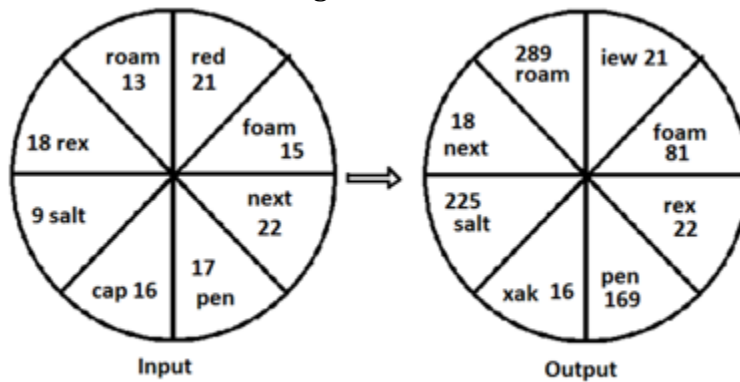
Sol. Following logic/operations were performed to obtain the output.

For words.

I. In the arrangement, if the numbers with the word in the opposite sectors are in odd – even form than the first and the last letter of the word are replaced with their opposite letter according to the alphabetical series.

II. In the arrangement, if the numbers with the words in the opposite sectors are in Odd – odd form than the squares of numbers are interchanged with each other in the opposite sectors.

III. In the arrangement if the numbers with the words in the opposite sectors are in even – even form then the words in the opposite sectors are interchanged.



'Xak 16' is in the opposite sector of 'iew 21' in the output.

S8. Ans.(b)

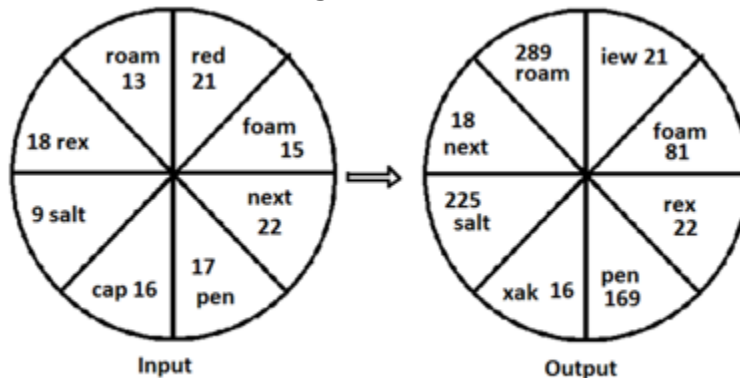
Sol. Following logic/operations were performed to obtain the output.

For words.

I. In the arrangement, if the numbers with the word in the opposite sectors are in odd – even form than the first and the last letter of the word are replaced with their opposite letter according to the alphabetical series.

II. In the arrangement, if the numbers with the words in the opposite sectors are in Odd – odd form than the squares of numbers are interchanged with each other in the opposite sectors.

III. In the arrangement if the numbers with the words in the opposite sectors are in even – even form then the words in the opposite sectors are interchanged.



Sum of all odd numbers $(225+81+169+289+21)= 785$.

S9. Ans.(d)

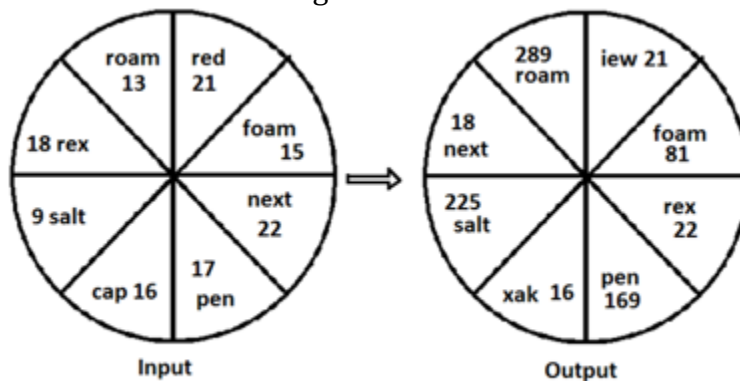
Sol. Following logic/operations were performed to obtain the output.

For words.

I. In the arrangement, if the numbers with the word in the opposite sectors are in odd – even form than the first and the last letter of the word are replaced with their opposite letter according to the alphabetical series.

II. In the arrangement, if the numbers with the words in the opposite sectors are in Odd – odd form than the squares of numbers are interchanged with each other in the opposite sectors.

III. In the arrangement if the numbers with the words in the opposite sectors are in even – even form then the words in the opposite sectors are interchanged.



‘Cap 16’ is replaced by ‘xak 16’ after the operation.

S10. Ans.(d)

Sol. Step1- From the given conditions, the female who like English lives on sixth number floor with J. H lives just below the floor on which J lives, who likes Hindi. Either the top floor or the bottom most floor is empty. So, there will be two possibilities in which case1 ninth floor is empty and in case2 first floor is empty. A who likes English lives above to the K who is a female and likes the math. There are six floors between the one who likes English and K. There are five floors between E and L and E lives one of the floors above L who is a female and likes economics. L lives alone.

Case 1		
FLOOR	PERSONS(+/-)	
9	EMPTY	EMPTY
8	A()-ENGLISH	E
7		
6	(F)-English	J-Hindi
5		H
4		
3		
2	L(F)-ECONOMIC S	
1	K(F)-MATH	

Case 2		
FLOOR	PERSONS(+/-)	
9	A()-ENGLISH	E
8		
7		
6	(F)-English	J-Hindi
5		H
4		
3	L(F)-ECONOMIC S	
2	K(F)-MATH	
1	EMPTY	EMPTY

Step 2 :- As it is given that E does not live on floor number eight so possibility of case 1 eliminated. Proceeding with the rest of the statements given, "There is two floors between the one who like the Hindi and the empty floor and the one who like Hindi lives below to the empty floor. There are two empty odd floors', So the floor no 7 is also empty.

"The two man likes English live on the same floor" and not more than three people likes the same subject so E is a male and likes English subject. C is a female who likes economics and share her floor with I who like math. F is a male person and lives immediate above the empty floor and like the Hindi. F lives with K.


Case 2

FLOOR	PERSONS(+/-)	
9	A(M)-ENGLISH	E(M)-ENGLISH
8	C(F)-ECONOMICS	I(M)-MATH
7	EMPTY	EMPTY
6	(F)-English	J-Hindi
5		H
4	Hindi	
3	L(F)-ECONOMICS	
2	K(F)-MATH	F(M)-HINDI
1	EMPTY	EMPTY

Step 3 :- Now G share the floor with the person who likes Hindi and G likes math. "There is two people live between the male person who likes economics and the one who likes math and the person who likes economics live below the one who likes the math" so H is a male and likes Economics and lives alone as it is given that There are two floors on which a single man and a single woman are living on floors which is living between two floors which are occupied by two persons each. Two females do not share the same floor. each subject is like by at least one female person. So, Hindi on floor number four is liked by a female person. So we get our final solution.

FLOOR	PERSONS(+/-)	
9	A(M)-English	E(M)-English
8	C(F)-Economics	I(M)-Math
7	EMPTY	EMPTY
6	B/D(F)-English	J(M)-Hindi
5		H(M)-Economics
4	B/D(F)-Hindi	G(M)-Math
3	L(F)-Economics	
2	K(F)-Math	F(M)-HINDI
1	EMPTY	EMPTY

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S11. Ans.(c)

Sol. Step1- From the given conditions, the female who like English lives on sixth number floor with J. H lives just below the floor on which J lives, who likes Hindi. Either the top floor or the bottom most floor is empty. So, there will be two possibilities in which case1 ninth floor is empty and in case2 first floor is empty. A who likes English lives above to the K who is a female and likes the math. There are six floors between the one who likes English and K. There are five floors between E and L and E lives one of the floors above L who is a female and likes economics. L lives alone.

Case 1		
FLOOR	PERSONS(+/-)	
9	EMPTY	EMPTY
8	A() - ENGLISH	E
7		
6	(F)-English	J-Hindi
5		H
4		
3		
2	L(F)-ECONOMIC S	
1	K(F)-MATH	

Case 2		
FLOOR	PERSONS(+/-)	
9	A() - ENGLISH	E
8		
7		
6	(F)-English	J-Hindi
5		H
4		
3	L(F)-ECONOMIC S	
2	K(F)-MATH	
1	EMPTY	EMPTY

Step 2 :- As it is given that E does not live on floor number eight so possibility of case 1 eliminated. Proceeding with the rest of the statements given, "There is two floors between the one who like the Hindi and the empty floor and the one who like Hindi lives below to the empty floor. There are two empty odd floors', So the floor no 7 is also empty.

"The two man likes English live on the same floor" and not more than three people likes the same subject so E is a male and likes English subject. C is a female who likes economics and share her floor with I who like math. F is a male person and lives immediate above the empty floor and like the Hindi. F lives with K.

Case 2

FLOOR	PERSONS(+/-)	
9	A(M)-ENGLISH	E(M)-ENGLISH
8	C(F)-ECONOMICS	I() -MATH
7	EMPTY	EMPTY
6	(F)-English	J-Hindi
5		H
4	Hindi	
3	L(F)-ECONOMICS	
2	K(F)-MATH	F(M)-HINDI
1	EMPTY	EMPTY

Step 3 :- Now G share the floor with the person who likes Hindi and G likes math. "There is two people live between the male person who likes economics and the one who likes math and the person who likes economics live below the one who likes the math" so H is a male and likes Economics and lives alone as it is given that There are two floors on which a single man and a single woman are living on floors which is living between two floors which are occupied by two persons each. Two females do not share the same floor. each subject is like by at least one female person. So, Hindi on floor number four is liked by a female person. So we get our final solution.

FLOOR	PERSONS(+/-)	
9	A(M)-English	E(M)-English
8	C(F)-Economics	I(M)-Math
7	EMPTY	EMPTY
6	B/D(F)-English	J(M)-Hindi
5		H(M)-Economics
4	B/D(F)-Hindi	G(M)-Math
3	L(F)-Economics	
2	K(F)-Math	F(M)-HINDI
1	EMPTY	EMPTY

S12. Ans.(e)

Sol. Step1- From the given conditions, the female who like English lives on sixth number floor with J. H lives just below the floor on which J lives, who likes Hindi. Either the top floor or the bottom most floor is empty. So, there will be two possibilities in which case1 ninth floor is empty and in case2 first floor is empty. A who likes English lives above to the K who is a female and likes the math. There are six floors between the one who likes English and K. There are five floors between E and L and E lives one of the floors above L who is a female and likes economics. L lives alone.

Case 1		
FLOOR	PERSONS(+/-)	
9	EMPTY	EMPTY
8	A()-ENGLISH	E
7		
6	(F)-English	J-Hindi
5		H
4		
3		
2	L(F)-ECONOMICS	
1	K(F)-MATH	

Case 2		
FLOOR	PERSONS(+/-)	
9	A()-ENGLISH	E
8		
7		
6	(F)-English	J-Hindi
5		H
4		
3	L(F)-ECONOMICS	
2	K(F)-MATH	
1	EMPTY	EMPTY

Step 2 :- As it is given that E does not live on floor number eight so possibility of case 1 eliminated. Proceeding with the rest of the statements given, "There is two floors between the one who like the Hindi and the empty floor and the one who like Hindi lives below to the empty floor. There are two empty odd floors', So the floor no 7 is also empty.

"The two man likes English live on the same floor" and not more than three people likes the same subject so E is a male and likes English subject. C is a female who likes economics and share her floor with I who like math. F is a male person and lives immediate above the empty floor and like the Hindi. F lives with K.

Case 2

FLOOR	PERSONS(+/-)	
9	A(M)-ENGLISH	E(M)-ENGLISH
8	C(F)-ECONOMICS	I(M)-MATH
7	EMPTY	EMPTY
6	(F)-English	J-Hindi
5		H
4	Hindi	
3	L(F)-ECONOMICS	
2	K(F)-MATH	F(M)-HINDI
1	EMPTY	EMPTY

Step 3 :- Now G share the floor with the person who likes Hindi and G likes math. "There is two people live between the male person who likes economics and the one who likes math and the person who likes economics live below the one who likes the math" so H is a male and likes Economics and lives alone as it is given that There are two floors on which a single man and a single woman are living on floors which is living between two floors which are occupied by two persons each. Two females do not share the same floor. each subject is like by at least one female person. So, Hindi on floor number four is liked by a female person. So we get our final solution.

FLOOR	PERSONS(+/-)	
9	A(M)-English	E(M)-English
8	C(F)-Economics	I(M)-Math
7	EMPTY	EMPTY
6	B/D(F)-English	J(M)-Hindi
5		H(M)-Economics
4	B/D(F)-Hindi	G(M)-Math
3	L(F)-Economics	
2	K(F)-Math	F(M)-HINDI
1	EMPTY	EMPTY

S13. Ans.(e)

Sol. Step1- From the given conditions, the female who like English lives on sixth number floor with J. H lives just below the floor on which J lives, who likes Hindi. Either the top floor or the bottom most floor is empty. So, there will be two possibilities in which case1 ninth floor is empty and in case2 first floor is empty. A who likes English lives above to the K who is a female and likes the math. There are six floors between the one who likes English and K. There are five floors between E and L and E lives one of the floors above L who is a female and likes economics. L lives alone.

Case 1		
FLOOR	PERSONS(+/-)	
9	EMPTY	EMPTY
8	A() - ENGLISH	E
7		
6	(F)-English	J-Hindi
5		H
4		
3		
2	L(F)-ECONOMIC S	
1	K(F)-MATH	

Case 2		
FLOOR	PERSONS(+/-)	
9	A() - ENGLISH	E
8		
7		
6	(F)-English	J-Hindi
5		H
4		
3	L(F)-ECONOMIC S	
2	K(F)-MATH	
1	EMPTY	EMPTY

Step 2 :- As it is given that E does not live on floor number eight so possibility of case 1 eliminated. Proceeding with the rest of the statements given, "There is two floors between the one who like the Hindi and the empty floor and the one who like Hindi lives below to the empty floor. There are two empty odd floors', So the floor no 7 is also empty.

"The two man likes English live on the same floor" and not more than three people likes the same subject so E is a male and likes English subject. C is a female who likes economics and share her floor with I who like math. F is a male person and lives immediate above the empty floor and like the Hindi. F lives with K.

Case 2

FLOOR	PERSONS(+/-)	
9	A(M)-ENGLISH	E(M)-ENGLISH
8	C(F)-ECONOMICS	I() -MATH
7	EMPTY	EMPTY
6	(F)-English	J-Hindi
5		H
4	Hindi	
3	L(F)-ECONOMICS	
2	K(F)-MATH	F(M)-HINDI
1	EMPTY	EMPTY

Step 3 :- Now G share the floor with the person who likes Hindi and G likes math. "There is two people live between the male person who likes economics and the one who likes math and the person who likes economics live below the one who likes the math" so H is a male and likes Economics and lives alone as it is given that There are two floors on which a single man and a single woman are living on floors which is living between two floors which are occupied by two persons each. Two females do not share the same floor. each subject is like by at least one female person. So, Hindi on floor number four is liked by a female person. So we get our final solution.

FLOOR	PERSONS(+/-)	
9	A(M)-English	E(M)-English
8	C(F)-Economics	I(M)-Math
7	EMPTY	EMPTY
6	B/D(F)-English	J(M)-Hindi
5		H(M)-Economics
4	B/D(F)-Hindi	G(M)-Math
3	L(F)-Economics	
2	K(F)-Math	F(M)-HINDI
1	EMPTY	EMPTY

S14. Ans.(a)

Sol. Step1- From the given conditions, the female who like English lives on sixth number floor with J. H lives just below the floor on which J lives, who likes Hindi. Either the top floor or the bottom most floor is empty. So, there will be two possibilities in which case1 ninth floor is empty and in case2 first floor is empty. A who likes English lives above to the K who is a female and likes the math. There are six floors between the one who likes English and K. There are five floors between E and L and E lives one of the floors above L who is a female and likes economics. L lives alone.

Case 1		
FLOOR	PERSONS(+/-)	
9	EMPTY	EMPTY
8	A() - ENGLISH	E
7		
6	(F)-English	J-Hindi
5		H
4		
3		
2	L(F)-ECONOMICS	
1	K(F)-MATH	

Case 2		
FLOOR	PERSONS(+/-)	
9	A() - ENGLISH	E
8		
7		
6	(F)-English	J-Hindi
5		H
4		
3	L(F)-ECONOMICS	
2	K(F)-MATH	
1	EMPTY	EMPTY

Step 2 :- As it is given that E does not live on floor number eight so possibility of case 1 eliminated. Proceeding with the rest of the statements given, "There is two floors between the one who like the Hindi and the empty floor and the one who like Hindi lives below to the empty floor. There are two empty odd floors', So the floor no 7 is also empty.

"The two man likes English live on the same floor" and not more than three people likes the same subject so E is a male and likes English subject. C is a female who likes economics and share her floor with I who like math. F is a male person and lives immediate above the empty floor and like the Hindi. F lives with K.

Case 2

FLOOR	PERSONS(+/-)	
9	A(M)-ENGLISH	E(M)-ENGLISH
8	C(F)-ECONOMICS	I(M)-MATH
7	EMPTY	EMPTY
6	(F)-English	J-Hindi
5		H
4	Hindi	
3	L(F)-ECONOMICS	
2	K(F)-MATH	F(M)-HINDI
1	EMPTY	EMPTY

Step 3 :- Now G share the floor with the person who likes Hindi and G likes math. "There is two people live between the male person who likes economics and the one who likes math and the person who likes economics live below the one who likes the math" so H is a male and likes Economics and lives alone as it is given that There are two floors on which a single man and a single woman are living on floors which is living between two floors which are occupied by two persons each. Two females do not share the same floor. each subject is like by at least one female person. So, Hindi on floor number four is liked by a female person. So we get our final solution.

FLOOR	PERSONS(+/-)	
9	A(M)-English	E(M)-English
8	C(F)-Economics	I(M)-Math
7	EMPTY	EMPTY
6	B/D(F)-English	J(M)-Hindi
5		H(M)-Economics
4	B/D(F)-Hindi	G(M)-Math
3	L(F)-Economics	
2	K(F)-Math	F(M)-HINDI
1	EMPTY	EMPTY

S15. Ans.(e)**Sol.**

Step 1 :- As per the given conditions in statement I and II, by taken individually we cannot find which food item is prepared on Thursday.

But After combining both the statements- Pasta is prepared on Wednesday and only one food is prepared between Dhosa and Pasta. There will be two possible cases

Case 1 :

Days	Food Item
Monday	
Tuesday	
Wednesday	Pasta
Thursday	
Friday	Dhosa

Case 2

Days	Food Item
Monday	Dhosa
Tuesday	
Wednesday	Pasta
Thursday	
Friday	

Step 2 :- Now as it is given that there are two food items prepared between Biryani and Chicken and chicken prepared before biryani. Dhosa is prepared on the day after Biryani. Dhokla is prepare before Biryani. From these conditions case 2 will be eliminated. Now In case 1, Chicken is prepared on Monday and Biryani on Thursday and Dhokla on Tuesday.

Case 1 :

Days	Food Item
Monday	Chicken
Tuesday	Dhokla
Wednesday	Pasta
Thursday	Biryani
Friday	Dhosa

S16. Ans.(c)

Sol. From Statement I, Romil rank is 27th from the left and Jugail rank is $(40-21+1) = 20^{\text{th}}$ from the left. Then Romil is seven ranks to the right of Jugail.

Now, From statement II, Jugail rank is $(45-22+1) = 24^{\text{th}}$ from the left. Romil rank is $(27+1) = 28^{\text{th}}$ from the left, So Romil is four ranks to the right of Jugail.



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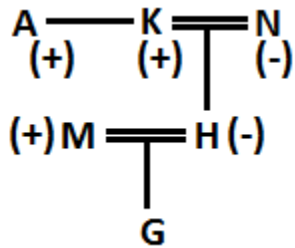
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Starts February 21, 2020

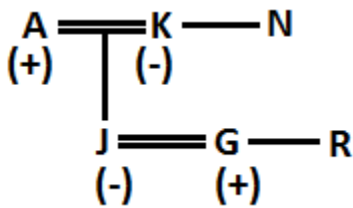
12pm to 2pm & 5pm to 6 pm

S17. Ans.(b)

Sol. From Statement I, it is given that A is the brother of K, who is married to N, who is mother of H who is married to M. M is the father of G. So, the gender of G is not defined so we can't find how G is related to K.



From Statement II, it is given that G is the brother of R. K is the sister of N. A is married to K. J is only child of A and is married to G. So, we can say that G is son-in-law of K.



S18. Ans.(d)

Sol.

word	Code
manage	fr
gathering	ch
expert/exam	es/pt
to	re
nominate	gi
chairman	yu
Evening/in	ba/mo
persons	dv

S19. Ans.(b)

Sol.

word	Code
manage	fr
gathering	ch
expert/exam	es/pt
to	re
nominate	gi
chairman	yu
Evening/in	ba/mo
persons	dv

S20. Ans.(c)**Sol.**

word	Code
manage	fr
gathering	ch
expert/exam	es/pt
to	re
nominate	gi
chairman	yu
Evening/in	ba/mo
persons	dv

S21. Ans.(a)

Sol. Step 1: Using the given conditions, box A is kept immediately above the box which is 48kg in weight. There are three boxes between E and the box which is 48 kg in weight. Box E is 72 kg in weight. Box R is not of 48 kg. Box G is 28 kg in weight and is kept either at the top or at the bottom. More than two boxes are kept below A. So, there will be three possible cases,

Case 1

Box	Weight
G	28 kg
A	
	48 kg
E	72 kg

Case 2

Box	Weight
A	
	48 kg
E	72 kg
G	28 kg

Case 3

Box	Weight
E	72 KG
A	
	48 KG
G	28 KG

Step 2 : From the given condition, there is only one box kept between the box which is 60 kg in weight and the box which is 72 kg in weight.

Case 1

Box	Weight
G	28 kg
A	
	48 kg
	60 kg
E	72 kg

Case 2

Box	Weight
A	
	48 kg
	60 kg
E	72 kg
G	28 kg

Case 3

Box	Weight
E	72 Kg
	60 kg
A	
	48 Kg
G	28 Kg

Step 3 : As it is given that, Box M is placed immediately above box D. Box M is neither 48 kg nor 60 kg in weight. Box R is 36 kg in weight.

Case 1

Box	Weight
G	28 kg
A	
	48 kg
M	
D	60 kg
R	36 kg
E	72 kg

Case 2

Box	Weight
A	
	48 kg
M	
D	60 kg
R	36 kg
E	72 kg
G	28 kg

Case 3

Box	Weight
E	72 Kg
M	
D	60 kg
A	
	48 Kg
R	36 kg
G	28 Kg

Step 4 : Now using the remaining conditions, Box O is kept below A. Box A is not 67 kg in weight. There is one box kept between box which is 67 kg in weight and the box which is 50 kg in weight.

Case 1

Box	Weight
G	28 kg
A	50 kg
O	48 kg
M	67 kg
D	60 kg
R	36 kg
E	72 kg

Case 2

Box	Weight
A	50 kg
O	48 kg
M	67 kg
D	60 kg
R	36 kg
E	72 kg
G	28 kg

Case 3

Box	Weight
E	72 Kg
M	67 kg
D	60 kg
A	50 kg
O	48 Kg
R	36 kg
G	28 Kg



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Now, as it is given that Less than three boxes are kept below the Box O, So, case 1 and case 2 will be eliminated and we get our final answer.

Case 3

Box	Weight
E	72 Kg
M	67 kg
D	60 kg
A	50 kg
O	48 Kg
R	36 kg
G	28 Kg

S22. Ans.(d)

Sol. Step 1: Using the given conditions, box A is kept immediately above the box which is 48kg in weight. There are three boxes between E and the box which is 48 kg in weight. Box E is 72 kg in weight. Box R is not of 48 kg. Box G is 28 kg in weight and is kept either at the top or at the bottom. More than two boxes are kept below A. So, there will be three possible cases,

Case 1

Box	Weight
G	28 kg
A	
	48 kg
E	72 kg

Case 2

Box	Weight
A	
	48 kg
E	72 kg
G	28 kg

Case 3

Box	Weight
E	72 KG
A	
	48 KG
G	28 KG

Step 2 : From the given condition, there is only one box kept between the box which is 60 kg in weight and the box which is 72 kg in weight.

Case 1

Box	Weight
G	28 kg
A	
	48 kg
	60 kg
E	72 kg

Case 2

Box	Weight
A	
	48 kg
	60 kg
E	72 kg
G	28 kg

Case 3

Box	Weight
E	72 Kg
	60 kg
A	
	48 Kg
G	28 Kg

Step 3 : As it is given that, Box M is placed immediately above box D. Box M is neither 48 kg nor 60 kg in weight. Box R is 36 kg in weight.

Case 1

Box	Weight
G	28 kg
A	
	48 kg
M	
D	60 kg
R	36 kg
E	72 kg

Case 2

Box	Weight
A	
	48 kg
M	
D	60 kg
R	36 kg
E	72 kg
G	28 kg

Case 3

Box	Weight
E	72 Kg
M	
D	60 kg
A	
	48 Kg
R	36 kg
G	28 Kg

Step 4 : Now using the remaining conditions, Box O is kept below A. Box A is not 67 kg in weight. There is one box kept between box which is 67 kg in weight and the box which is 50 kg in weight.

Case 1

Box	Weight
G	28 kg
A	50 kg
O	48 kg
M	67 kg
D	60 kg
R	36 kg
E	72 kg



Case 2

Box	Weight
A	50 kg
O	48 kg
M	67 kg
D	60 kg
R	36 kg
E	72 kg
G	28 kg

Case 3

Box	Weight
E	72 Kg
M	67 kg
D	60 kg
A	50 kg
O	48 Kg
R	36 kg
G	28 Kg

Now, as it is given that Less than three boxes are kept below the Box O, So, case 1 and case 2 will be eliminated and we get our final answer.

Case 3

Box	Weight
E	72 Kg
M	67 kg
D	60 kg
A	50 kg
O	48 Kg
R	36 kg
G	28 Kg

S23. Ans.(c)

Sol. Step 1: Using the given conditions, box A is kept immediately above the box which is 48kg in weight. There are three boxes between E and the box which is 48 kg in weight. Box E is 72 kg in weight. Box R is not of 48 kg. Box G is 28 kg in weight and is kept either at the top or at the bottom. More than two boxes are kept below A. So, there will be three possible cases,

Case 1

Box	Weight
G	28 kg
A	
	48 kg
E	72 kg

Case 2

Box	Weight
A	
	48 kg
E	72 kg
G	28 kg

Case 3

Box	Weight
E	72 KG
A	
	48 KG
G	28 KG

Step 2 : From the given condition, there is only one box kept between the box which is 60 kg in weight and the box which is 72 kg in weight.

Case 1

Box	Weight
G	28 kg
A	
	48 kg
	60 kg
E	72 kg

Case 2

Box	Weight
A	
	48 kg
	60 kg
E	72 kg
G	28 kg

Case 3

Box	Weight
E	72 Kg
	60 kg
A	
	48 Kg
G	28 Kg

Step 3 : As it is given that, Box M is placed immediately above box D. Box M is neither 48 kg nor 60 kg in weight. Box R is 36 kg in weight.

Case 1

Box	Weight
G	28 kg
A	
	48 kg
M	
D	60 kg
R	36 kg
E	72 kg

Case 2

Box	Weight
A	
	48 kg
M	
D	60 kg
R	36 kg
E	72 kg
G	28 kg

Case 3

Box	Weight
E	72 Kg
M	
D	60 kg
A	
	48 Kg
R	36 kg
G	28 Kg

Step 4 : Now using the remaining conditions, Box O is kept below A. Box A is not 67 kg in weight. There is one box kept between box which is 67 kg in weight and the box which is 50 kg in weight.

Case 1

Box	Weight
G	28 kg
A	50 kg
O	48 kg
M	67 kg
D	60 kg
R	36 kg
E	72 kg

Case 2


Box	Weight
A	50 kg
O	48 kg
M	67 kg
D	60 kg
R	36 kg
E	72 kg
G	28 kg

Case 3

Box	Weight
E	72 Kg
M	67 kg
D	60 kg
A	50 kg
O	48 Kg
R	36 kg
G	28 Kg



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Now, as it is given that Less than three boxes are kept below the Box O, So, case 1 and case 2 will be eliminated and we get our final answer.

Case 3

Box	Weight
E	72 Kg
M	67 kg
D	60 kg
A	50 kg
O	48 Kg
R	36 kg
G	28 Kg

S24. Ans.(c)

Sol. Students let us understand the Logic behind this Question and let's understand how to solve it. When we see each step, then we can find that there is both number and words are arranged in each step.

From the step I one word is arrange in left end and one number is arrange in right side and in step II word is arrange in right end and number is arrange left end side. This (inward) process is continuous until all the words and numbers are arranged.

(a) For words arrangement- Words are arranged according to the alphabetical order. Starting from left and then in right in the next step alternatively and so on till the last step.

(b) For numbers arrangement- Firstly the smallest odd number is arranged by its succeeding number in the right end side in step 1 (for ex. $(17+1)= 18$). And then in the second step smallest even numbers is replaced by its preceding digit at the left end side in step 2 (for ex. $(36-1)= 35$) and in the third step second smallest odd number and in the fourth step second smallest even number and so on till the last step.

Input: Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty 92

Step I: Apple Mid 39 56 Good 59 Orange Beautiful 76 Naughty 92 36

Step II: 55 Apple Mid 39 Good 59 Orange 76 Naughty 92 36 Beautiful

Step III: Good 55 Apple Mid 59 Orange 76 Naughty 92 36 Beautiful 40

Step IV: 75 Good 55 Apple 59 Orange Naughty 92 36 Beautiful 40 Mid

Step V: Naughty 75 Good 55 Apple Orange 92 36 Beautiful 40 Mid 60

Step VI: 91 Naughty 75 Good 55 Apple 36 Beautiful 40 Mid 60 Orange

S25. Ans.(b)

Sol. Students let us understand the Logic behind this Question and let's understand how to solve it. When we see each step, then we can find that there is both number and words are arranged in each step.

From the step I one word is arrange in left end and one number is arrange in right side and in step II word is arrange in right end and number is arrange left end side. This (inward) process is continuous until all the words and numbers are arranged.

(a) For words arrangement- Words are arranged according to the alphabetical order. Starting from left and then in right in the next step alternatively and so on till the last step.

(b) For numbers arrangement- Firstly the smallest odd number is arranged by its succeeding number in the right end side in step 1 (for ex. $(17+1)= 18$). And then in the second step smallest even numbers is replaced by its preceding digit at the left end side in step 2 (for ex. $(36-1)= 35$) and in the third step second smallest odd number and in the fourth step second smallest even number and so on till the last step.

Input: Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty 92
 Step I: Apple Mid 39 56 Good 59 Orange Beautiful 76 Naughty 92 36
 Step II: 55 Apple Mid 39 Good 59 Orange 76 Naughty 92 36 Beautiful
 Step III: Good 55 Apple Mid 59 Orange 76 Naughty 92 36 Beautiful 40
 Step IV: 75 Good 55 Apple 59 Orange Naughty 92 36 Beautiful 40 Mid
 Step V: Naughty 75 Good 55 Apple Orange 92 36 Beautiful 40 Mid 60
 Step VI: 91 Naughty 75 Good 55 Apple 36 Beautiful 40 Mid 60 Orange

S26. Ans.(c)

Sol. Students let us understand the Logic behind this Question and let's understand how to solve it. When we see each step, then we can find that there is both number and words are arranged in each step.

From the step I one word is arrange in left end and one number is arrange in right side and in step II word is arrange in right end and number is arrange left end side. This (inward) process is continuous until all the words and numbers are arranged.

(a) For words arrangement- Words are arranged according to the alphabetical order. Starting from left and then in right in the next step alternatively and so on till the last step.

(b) For numbers arrangement- Firstly the smallest odd number is arranged by its succeeding number in the right end side in step 1 (for ex. $(17+1)= 18$). And then in the second step smallest even numbers is replaced by its preceding digit at the left end side in step 2 (for ex. $(36-1)= 35$) and in the third step second smallest odd number and in the fourth step second smallest even number and so on till the last step.

Input: Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty 92
 Step I: Apple Mid 39 56 Good 59 Orange Beautiful 76 Naughty 92 36
 Step II: 55 Apple Mid 39 Good 59 Orange 76 Naughty 92 36 Beautiful
 Step III: Good 55 Apple Mid 59 Orange 76 Naughty 92 36 Beautiful 40
 Step IV: 75 Good 55 Apple 59 Orange Naughty 92 36 Beautiful 40 Mid
 Step V: Naughty 75 Good 55 Apple Orange 92 36 Beautiful 40 Mid 60
 Step VI: 91 Naughty 75 Good 55 Apple 36 Beautiful 40 Mid 60 Orange

S27. Ans.(a)

Sol. Students let us understand the Logic behind this Question and let's understand how to solve it. When we see each step, then we can find that there is both number and words are arranged in each step.

From the step I one word is arrange in left end and one number is arrange in right side and in step II word is arrange in right end and number is arrange left end side. This (inward) process is continuous until all the words and numbers are arranged.

(a) For words arrangement- Words are arranged according to the alphabetical order. Starting from left and then in right in the next step alternatively and so on till the last step.

(b) For numbers arrangement- Firstly the smallest odd number is arranged by its succeeding number in the right end side in step 1 (for ex. $(17+1)= 18$). And then in the second step smallest even numbers is replaced by its preceding digit at the left end side in step 2 (for ex. $(36-1)= 35$) and in the third step second smallest odd number and in the fourth step second smallest even number and so on till the last step.

Input: Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty 92
 Step I: Apple Mid 39 56 Good 59 Orange Beautiful 76 Naughty 92 36
 Step II: 55 Apple Mid 39 Good 59 Orange 76 Naughty 92 36 Beautiful
 Step III: Good 55 Apple Mid 59 Orange 76 Naughty 92 36 Beautiful 40
 Step IV: 75 Good 55 Apple 59 Orange Naughty 92 36 Beautiful 40 Mid
 Step V: Naughty 75 Good 55 Apple Orange 92 36 Beautiful 40 Mid 60
 Step VI: 91 Naughty 75 Good 55 Apple 36 Beautiful 40 Mid 60 Orange

S28. Ans.(c)

Sol. Students let us understand the Logic behind this Question and let's understand how to solve it. When we see each step, then we can find that there is both number and words are arranged in each step. From the step I one word is arrange in left end and one number is arrange in right side and in step II word is arrange in right end and number is arrange left end side. This (inward) process is continuous until all the words and numbers are arranged.

(a) For words arrangement- Words are arranged according to the alphabetical order. Starting from left and then in right in the next step alternatively and so on till the last step.

(b) For numbers arrangement- Firstly the smallest odd number is arranged by its succeeding number in the right end side in step 1 (for ex. $(17+1)= 18$). And then in the second step smallest even numbers is replaced by its preceding digit at the left end side in step 2 (for ex. $(36-1)= 35$) and in the third step second smallest odd number and in the fourth step second smallest even number and so on till the last step.

Input: Mid 39 Apple 56 Good 59 Orange 35 Beautiful 76 Naughty 92

Step I: Apple Mid 39 56 Good 59 Orange Beautiful 76 Naughty 92 36

Step II: 55 Apple Mid 39 Good 59 Orange 76 Naughty 92 36 Beautiful

Step III: Good 55 Apple Mid 59 Orange 76 Naughty 92 36 Beautiful 40

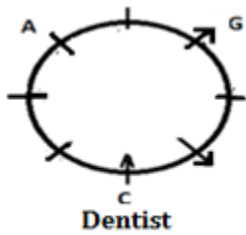
Step IV: 75 Good 55 Apple 59 Orange Naughty 92 36 Beautiful 40 Mid

Step V: Naughty 75 Good 55 Apple Orange 92 36 Beautiful 40 Mid 60

Step VI: 91 Naughty 75 Good 55 Apple 36 Beautiful 40 Mid 60 Orange

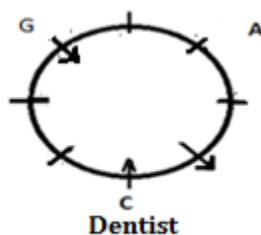
S29. Ans.(d)

Sol. Step 1:- From the given statements, All the eight members sits around a circular table and some of them face inside and some faces outside. And all people have different medical profession. C, who is a dentist sits third to the right of G. there is only one person between A and G and A is not the immediate neighbour of C, who is facing inside. From this there is two possible cases for G, either faces inside or faces outside.



Dentist

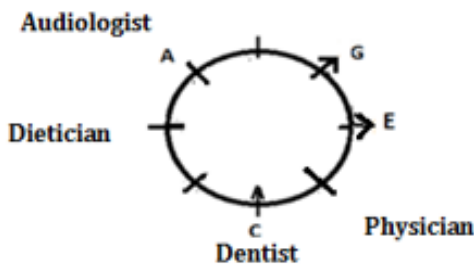
Case 1



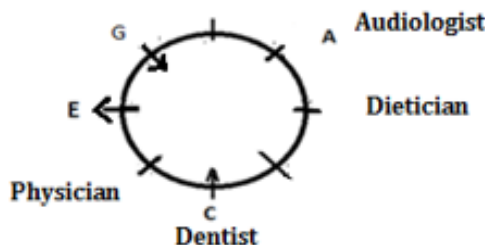
Dentist

Case 2

Step 2: further given that Physician sits second to the right of G. E sits opposite to one who is a Dietician and faces away from the center. E is not an immediate neighbour of A and C. There is only one person sit between G and whose profession is Audiologist. G does not sit immediate right of E. by this statement case 2 is eliminated.

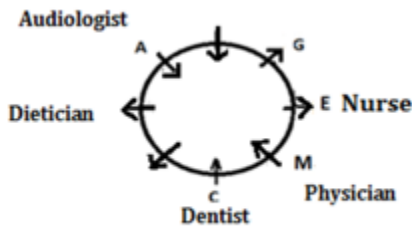


Case 1

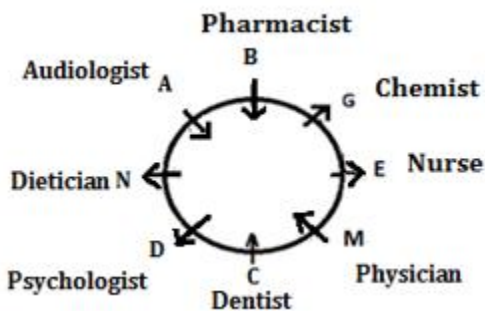


Case 2

Step 3: Now we further proceed with case 1. As it is given that not more than two immediate neighbours faces the same direction. Immediate neighbours of A faces the opposite directions (opposite direction means if one neighbour faces towards the center then other will face opposite to center and vice-versa). No person sits between the one who is a Nurse and the one who is a Physician. It means E is a Nurse.



Step 4: further given that “The one whose profession is Nurse sits on the immediate right of M. The one whose profession is Chemist sit in between the people whose professions is Nurse and Pharmacist. N sits opposite to the one who is a Nurse. B’s profession is neither a Psychologist nor sits immediate neighbor of one whose profession is Psychologist. And D is not a Dietician” by this we get our final solution.

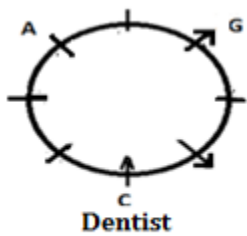


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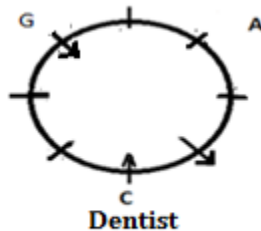
S30. Ans.(b)

Sol.

Step 1:- From the given statements, All the eight members sits around a circular table and some of them face inside and some faces outside. And all people have different medical profession. C, who is a dentist sits third to the right of G. there is only one person between A and G and A is not the immediate neighbour of C, who is facing inside. From this there is two possible cases for G, either faces inside or faces outside.

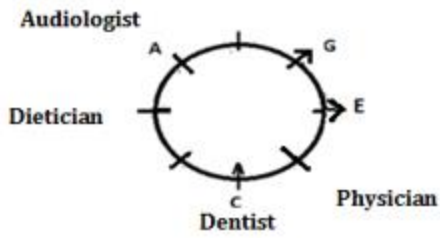


Case 1

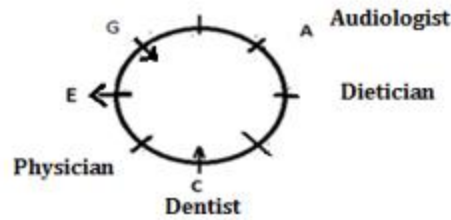


Case 2

Step 2: further given that Physician sits second to the right of G. E sits opposite to one who is a Dietician and faces away from the center. E is not an immediate neighbour of A and C. There is only one person sit between G and whose profession is Audiologist. G does not sit immediate right of E. by this statement case 2 is eliminated.

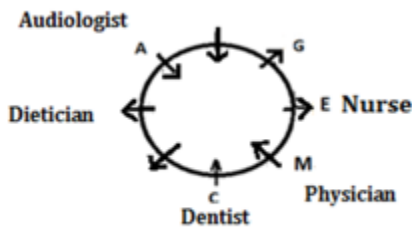


Case 1

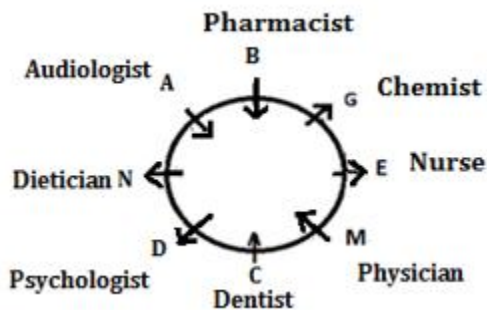


Case 2

Step 3: Now we further proceed with case 1. As it is given that not more than two immediate neighbours faces the same direction. Immediate neighbours of A faces the opposite directions (opposite direction means if one neighbour faces towards the center then other will face opposite to center and vice-versa). No person sits between the one who is a Nurse and the one who is a Physician. It means E is a Nurse.



Step 4: further given that “The one whose profession is Nurse sits on the immediate right of M. The one whose profession is Chemist sit in between the people whose professions is Nurse and Pharmacist. N sits opposite to the one who is a Nurse. B’s profession is neither a Psychologist nor sits immediate neighbor of one whose profession is Psychologist. And D is not a Dietician” by this we get our final solution.



S31. Ans.(e)

Sol.

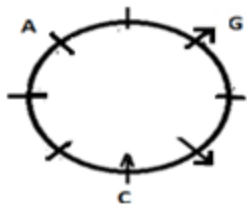
Step 1:- From the given statements, All the eight members sits around a circular table and some of them face inside and some faces outside. And all people have different medical profession. C, who is a dentist sits third to the right of G. there is only one person between A and G and A is not the immediate neighbour of C, who is facing inside. From this there is two possible cases for G, either faces inside or faces outside.

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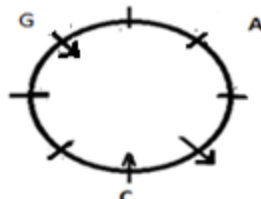
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Dentist

Case 1

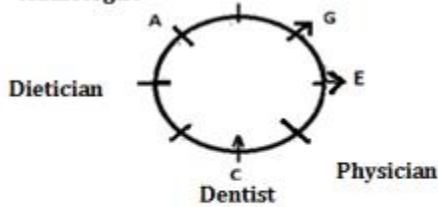


Dentist

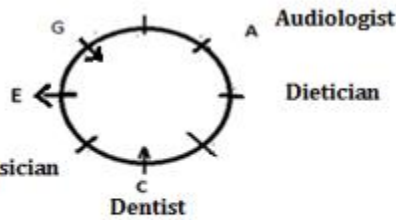
Case 2

Step 2: further given that Physician sits second to the right of G. E sits opposite to one who is a Dietician and faces away from the center. E is not an immediate neighbour of A and C. There is only one person sit between G and whose profession is Audiologist. G does not sit immediate right of E. by this statement case 2 is eliminated.

Audiologist



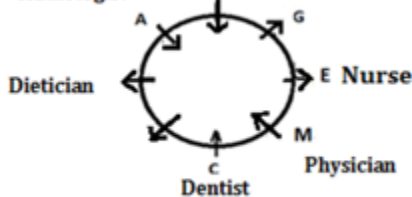
Case 1



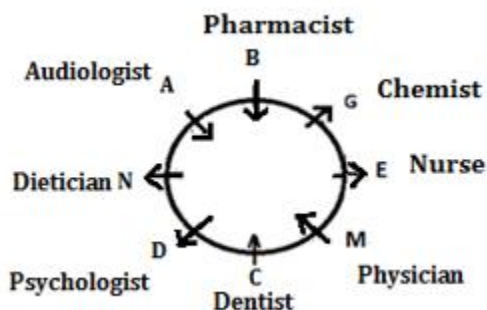
Case 2

Step 3: Now we further proceed with case 1. As it is given that not more than two immediate neighbours faces the same direction. Immediate neighbours of A faces the opposite directions (opposite direction means if one neighbour faces towards the center then other will face opposite to center and vice-versa). No person sits between the one who is a Nurse and the one who is a Physician. It means E is a Nurse.

Audiologist



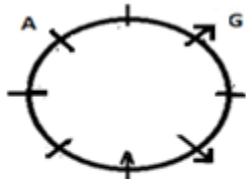
Step 4: further given that "The one whose profession is Nurse sits on the immediate right of M. The one whose profession is Chemist sit in between the people whose professions is Nurse and Pharmacist. N sits opposite to the one who is a Nurse. B's profession is neither a Psychologist nor sits immediate neighbor of one whose profession is Psychologist. And D is not a Dietician" by this we get our final solution.



S32. Ans.(c)

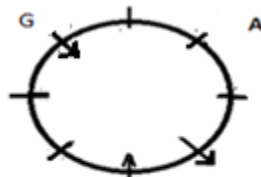
Sol.

Step 1:- From the given statements, All the eight members sits around a circular table and some of them face inside and some faces outside. And all people have different medical profession. C, who is a dentist sits third to the right of G. there is only one person between A and G and A is not the immediate neighbour of C, who is facing inside. From this there is two possible cases for G, either faces inside or faces outside.



Dentist

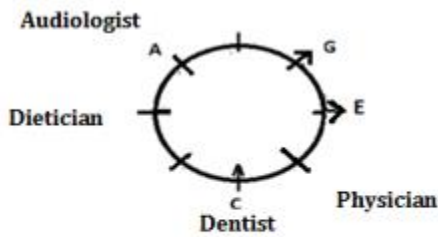
Case 1



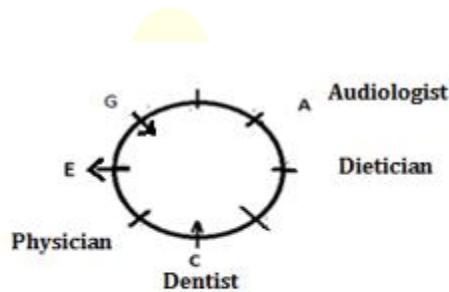
Dentist

Case 2

Step 2: further given that Physician sits second to the right of G. E sits opposite to one who is a Dietician and faces away from the center. E is not an immediate neighbour of A and C. There is only one person sit between G and whose profession is Audiologist. G does not sit immediate right of E. by this statement case 2 is eliminated.

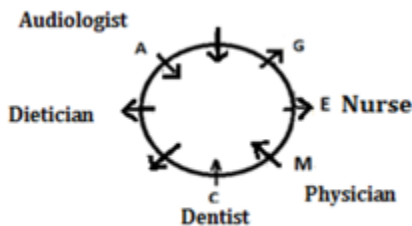


Case 1

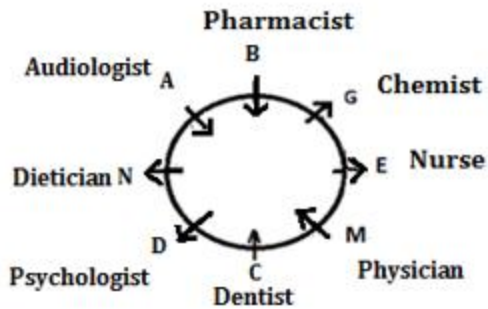


Case 2

Step 3: Now we further proceed with case 1. As it is given that not more than two immediate neighbours faces the same direction. Immediate neighbours of A faces the opposite directions (opposite direction means if one neighbour faces towards the center then other will face opposite to center and vice-versa). No person sits between the one who is a Nurse and the one who is a Physician. It means E is a Nurse.



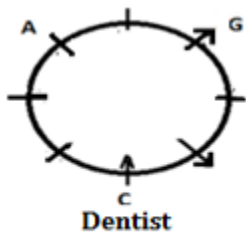
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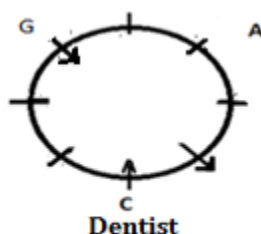
S33. Ans.(d)

Sol.

Step 1:- From the given statements, All the eight members sits around a circular table and some of them face inside and some faces outside. And all people have different medical profession. C, who is a dentist sits third to the right of G. there is only one person between A and G and A is not the immediate neighbour of C, who is facing inside. From this there is two possible cases for G, either faces inside or faces outside.

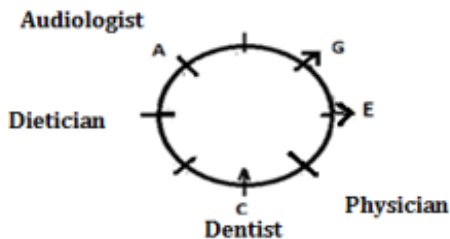


Case 1

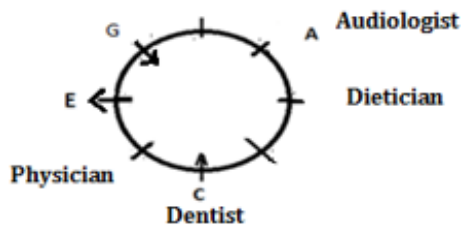


Case 2

Step 2: further given that Physician sits second to the right of G. E sits opposite to one who is a Dietician and faces away from the center. E is not an immediate neighbour of A and C. There is only one person sit between G and whose profession is Audiologist. G does not sit immediate right of E. by this statement case 2 is eliminated.

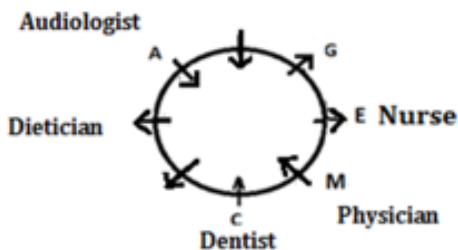


Case 1

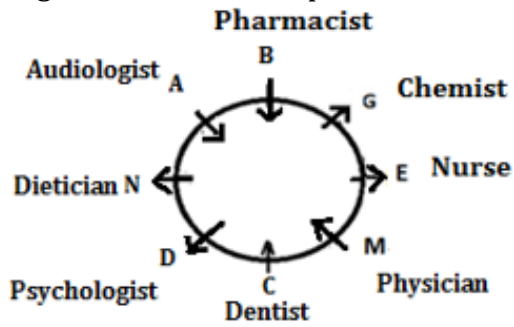


Case 2

Step 3: Now we further proceed with case 1. As it is given that not more than two immediate neighbours faces the same direction. Immediate neighbours of A faces the opposite directions (opposite direction means if one neighbour faces towards the center then other will face opposite to center and vice-versa). No person sits between the one who is a Nurse and the one who is a Physician. It means E is a Nurse.



Step 4: further given that “The one whose profession is Nurse sits on the immediate right of M. The one whose profession is Chemist sit in between the people whose professions is Nurse and Pharmacist. N sits opposite to the one who is a Nurse. B’s profession is neither a Psychologist nor sits immediate neighbor of one whose profession is Psychologist. And D is not a Dietician” by this we get our final solution.



S34. Ans.(a)

Sol.

Male model	Female model	Brands	Ranking
A	K	Loreal	4
B	J	Lakme	6
D	L	Maybelline	5
E	I	Colorbar	3
C	H	Olay	9

S35. Ans.(b)

Sol.

Male model	Female model	Brands	Ranking
A	K	Loreal	4
B	J	Lakme	6
D	L	Maybelline	5
E	I	Colorbar	3
C	H	Olay	9

S36. Ans.(d)

Sol.

Male model	Female model	Brands	Ranking
A	K	Loreal	4
B	J	Lakme	6
D	L	Maybelline	5
E	I	Colorbar	3
C	H	Olay	9

S37. Ans.(b)

Sol.

Male model	Female model	Brands	Ranking
A	K	Loreal	4
B	J	Lakme	6
D	L	Maybelline	5
E	I	Colorbar	3
C	H	Olay	9

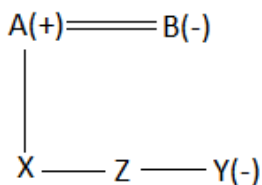
S38. Ans.(b)

Sol.

Male model	Female model	Brands	Ranking
A	K	Loreal	4
B	J	Lakme	6
D	L	Maybelline	5
E	I	Colorbar	3
C	H	Olay	9

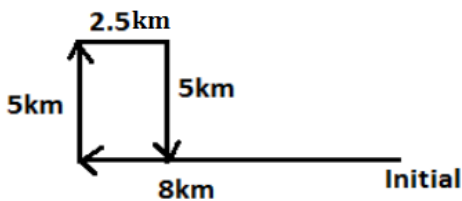
S39. Ans.(c)

Sol.



S40. Ans.(e)

Sol.



S41. Ans.(d)

Sol.

Let digit at unit's place and ten's place of original number be 'y' and 'x' respectively.

So, original number = $10 \times x + y$

And, new number = $10 \times y + x$



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ATQ,

$$y + 2 = x \quad \dots(i)$$

Now,

$$(x + y) (10 \times y + x) = 52$$

$$\Rightarrow 10yx + x^2 + 10y^2 + xy = 52$$

$$x^2 + 10y^2 + 11xy = 52 \quad \dots (ii)$$

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

$$y = 1$$

$$x = 3$$

$$\text{So, original number} = 10 \times x + y$$

$$= 30 + 1$$

$$= 31$$

S42. Ans.(b)

Sol.

	Days	Efficiency	Total work
A + B	72	25 units/day	1800 units (L.C.M.)
B + C	90	20 units/day	
A + C	75	24 units/day	

Let efficiency of A, B & C be 'x', 'y' & 'z' units/day respectively.

ATQ,

$$x + y = 25 \quad \dots (i)$$

$$y + z = 20 \quad \dots (ii)$$

$$x + z = 24 \quad \dots (iii)$$

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

$$x + y + z = \frac{69}{2}$$

Now,

$$\text{Required days} = \frac{1800}{\left(\frac{69}{2}\right)} = \frac{1800 \times 2}{69}$$

$$= \frac{1200}{23} \text{ days}$$

$$= 52\frac{4}{23} \text{ days}$$

S43. Ans.(e)

Sol.

Let marked price of the article be Rs. $100x$.

$$\text{So, cost price of the article} = 100x \times \frac{61}{100} = \text{Rs. } 61x$$

$$\text{And selling price of the article} = 61x \times \frac{140}{100} = \text{Rs. } 85.4x$$

ATQ,

$$(85.4x - 61x) - (100x - 85.4x) = 196$$

$$24.4x - 14.6x = 196$$

$$\Rightarrow x = 20$$

$$\text{So, C.P of the article} = 61x$$

$$= \text{Rs. } 1220$$

S44. Ans.(c)**Sol.**

Let speed of boat and stream be 'x' & 'y' km/hr respectively.

And let time taken by boat to cover 48 km in downstream be 't' hours.

So, time taken by boat to cover 48 km in upstream = 2t hours.

ATQ,

$$t + 2t = 9$$

$$\Rightarrow t = 3 \text{ hours.}$$

Now,

$$\frac{48}{x+y} = t$$

$$\frac{48}{x+y} = 3$$

$$x + y = 16 \quad \dots(i)$$

And,

$$\frac{48}{x-y} = 2t$$

$$\frac{48}{x-y} = 6$$

$$\Rightarrow x - y = 8 \quad \dots(ii)$$

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

$$x = 12 \text{ km/hr.}$$

S45. Ans.(a)**Sol.**

Let capital invested by Pankaj & Suresh be Rs 4x and Rs. 3x respectively.

So, profit sharing ratio of Pankaj, Suresh and Raju

$$= 4x \times 5 : 3x \times 10 : 50000 \times 2$$

$$= 20x : 30x : 100000$$

Now,

$$\frac{30x}{100000} = \frac{3}{1}$$

$$\text{So, } x = 10000 \text{ Rs.}$$

$$\text{So, required difference} = 4x - 3x$$

$$= 10000 \text{ Rs.}$$

S46. Ans.(d)**Sol.**

Number of male employees in marketing and finance department of company - B together

$$r = 8000 \times \left[\frac{25}{100} \times \frac{18}{25} + \frac{20}{100} \times \frac{3}{5} \right] = 8000 \times \frac{3}{10} = 2400$$

Number of employees in production department

$$\text{of company - A} = 5000 \times \frac{40}{100} = 2000$$

$$\text{Required \%} = \frac{2400}{2000} \times 100 = 120\%$$

S47. Ans.(c)

Sol.

Average number of female employees in Finance,
HR and R & D department of company - A

$$= \frac{1}{3} \times 5000 \left[\frac{16}{100} \times \frac{3}{10} + \frac{14}{100} \times \frac{3}{5} + \frac{10}{100} \times \frac{12}{25} \right]$$
$$= \frac{5000}{3} \left[\frac{48}{1000} + \frac{42}{500} + \frac{12}{250} \right] = \frac{5000}{3} \times \frac{180}{1000} = 300$$

Male employees in HR department of company - B

$$= 8000 \times \frac{20}{100} \times \frac{1}{5} = 320$$

$$\text{Required difference} = 320 - 300 = 20$$

S48. Ans.(a)

Sol.

Numbers of male employees in Production and
R & D department of company - B together

$$= 8000 \times \left[\frac{30}{100} \times \frac{2}{3} + \frac{5}{100} \times \frac{1}{2} \right] = 1800$$

Numbers of male employees in HR and R & D
department of company - A together

$$= 5000 \times \left[\frac{14}{100} \times \frac{2}{5} + \frac{10}{100} \times \frac{13}{25} \right] = 540$$

$$\text{Required ratio} = \frac{1800}{540} = \frac{10}{3} = 10 : 3$$

S49. Ans.(c)

Sol.

Female employees in Marketing and Finance
department of company - B together

$$= 8000 \times \left[\frac{25}{100} \times \frac{7}{25} + \frac{20}{100} \times \frac{2}{5} \right] = 1200$$

Female employees in Marketing and Production
department of company - A together

$$= 5000 \times \left[\frac{20}{100} \times \frac{9}{20} + \frac{40}{100} \times \frac{2}{5} \right] = 1250$$

$$\text{Required \%} = \frac{1250 - 1200}{1250} \times 100 = 4\%$$

S50. Ans.(a)

Sol.

Male employees in Marketing, Production and
Finance department of company - A together

$$= 5000 \times \left[\frac{20}{100} \times \frac{11}{20} + \frac{40}{100} \times \frac{3}{5} + \frac{16}{100} \times \frac{7}{10} \right]$$
$$= 5000 \times \frac{462}{1000} = 2310$$

Female employees in Production, HR and R & D
department of company - B together

$$= 8000 \times \left[\frac{30}{100} \times \frac{1}{3} + \frac{20}{100} \times \frac{4}{5} + \frac{5}{100} \times \frac{1}{2} \right] = 8000 \times \frac{57}{200} = 2280$$

$$\text{Required difference} = 2310 - 2280 = 30$$



S51. Ans.(a)

Sol.

Wrong term = 1436

Pattern of series -

$$-18 + (24)^2 = 558$$

$$558 + (20)^2 = 958$$

$$958 + (16)^2 = 1214$$

$$1214 + (12)^2 = 1358$$

$$1358 + (8)^2 = 1422$$

$$1422 + (4)^2 = 1438$$

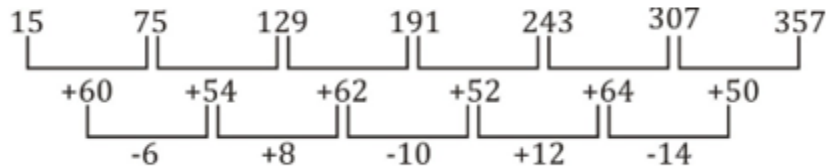
So, there should be 1438 in the place of 1436

S52. Ans.(c)

Sol.

Wrong term = 309

Pattern of series



So, there should be 307 in the place of 309.

S53. Ans.(d)

Sol.

Wrong term = 232

Pattern of series -

$$210 + 20 = 230$$

$$230 + 40 = 270$$

$$270 + 80 = 350$$

$$350 + 160 = 510$$

$$510 + 320 = 830$$

$$830 + 640 = 1470$$

So, there should be 230 in the place of 232.

S54. Ans.(a)

Sol.

Wrong term = 1040

Pattern of series -

$$48 \times 3 = 144$$

$$144 \times 2.5 = 360$$

$$360 \times 2 = 720$$

$$720 \times 1.5 = 1080$$

$$1080 \times 1 = 1080$$

$$1080 \times 0.5 = 540$$

So, there should be 1080 in the place of 1040.



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

Wrong term = 13184

Pattern of series –

$$19 \times 3 - 1 = 56$$

$$56 \times 3 - 2 = 166$$

$$166 \times 3 - 4 = 494$$

$$494 \times 3 - 8 = 1474$$

$$1474 \times 3 - 16 = 4406$$

$$4406 \times 3 - 32 = 13186$$

So, there should be 13186 in the place of 13184.

S56. Ans.(b)**Sol.**

From II. As 1 article is free on purchase of every 12 article so,

ATQ

$$MRP \times \frac{97.5}{100} \times \frac{1}{13} = C.P \times \frac{120}{100} \times \frac{1}{12}$$

$$\frac{MRP}{CP} = \frac{4}{3}$$

Let MRP and CP are 4x and 3x

$$\text{Required percentage} = \frac{4x-3x}{3x} \times 100 = 33.33\%$$

So, only II required

S57. Ans.(a)**Sol.**

From III. Total no. of balls = 24

From II. No. of green balls = 6

Let no. of blue balls = x

Then no. of red ball = 18 - x

$$\text{From I. } 2 \times \frac{x}{24} \times \frac{18-x}{23} = \frac{6}{23}$$

 $x = 12, 6$ ($x \neq 6$, because blue balls are more than red balls)

So, all together required

S58. Ans.(c)**Sol.**

From I. principle is Rs. 3430 and let rate is R%

ATQ

$$\text{Amount after 2 years} = 3430 \times \left[1 + \frac{R}{100}\right]^2 = 49 \times 3430 \dots (i)$$

$$\text{Amount after 4 years} = 3430 \times \left[1 + \frac{R}{100}\right]^{4+2} = 64 \times 3430 \dots (ii)$$

From (i) and (ii)

$$\left[1 + \frac{R}{100}\right]^2 = \frac{64}{49}$$

$$R = \frac{100}{7}\%$$

So, only I is sufficient



S59. Ans.(b)**Sol.**

From I. let no. of boys and girls are x and y

ATQ

$$\frac{26x+20y}{x+y} = \frac{250}{11}$$

$$\frac{x}{y} = \frac{5}{6}$$

let $x = 5a$ and $y = 6a$

From II.

ATQ

$$\frac{6a-6}{5a+6a} = \frac{500}{1100}$$

$$a = 6$$

$$\begin{aligned} \text{Total no of students} &= 11a \\ &= 66 \end{aligned}$$

So, I and II together required

S60. Ans.(c)**Sol.**From I. let radius of cylinder = $2r$ m

ATQ

$$\frac{\pi r l}{4\pi r^2 h} = \frac{1}{2}$$

$$\frac{\pi r \sqrt{r^2+h^2}}{4\pi r^2 h} = \frac{1}{2}$$

$$h = 2m \text{ (given)}$$

$$2r = \frac{4}{\sqrt{15}} m$$

$$\text{volume of cylinder} = \pi \times \frac{16}{15} \times 2 = \frac{32}{15} \pi m^3$$

so, only I is sufficient**S61. Ans.(b)****Sol.**

Let the number of red and black colored balls be x and y respectively.

ATQ,

$$\frac{{}^x C_2}{{}^{(9+x)} C_2} = \frac{1}{7}$$

$$\Rightarrow \frac{x \times (x-1)}{(9+x) \times (8+x)} = \frac{1}{7}$$

$$\Rightarrow x = 6$$

Total number of balls = 15

$$\Rightarrow \frac{{}^y C_2}{{}^{15} C_2} = \frac{1}{7} \times \frac{100}{250}$$

$$\Rightarrow y = 4$$

$$\text{Number of yellow colored ball} = 15 - (6+4) = 5$$

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

Let he has maximum profits when he has x items unsold with him.

And when he has maximum selling price, he will have maximum profits.

ATQ,

$$\begin{aligned} SP &= (10 - x) \times (60 + 10x) \\ &= 600 - 60x + 100x - 10x^2 \\ &= 600 + 40x - 10x^2 \\ &= 600 + 10(4x - x^2) \end{aligned}$$

SP will maximum when $(4x - x^2)$ will have maximum value.

\Rightarrow for maximum value of $x \times (4 - x)$

We have

$$x = (4 - x)$$

$$\Rightarrow x = 2$$

$$\text{Required SP} = \text{Rs. } (60 + 2 \times 10) = \text{Rs. } 80$$

S63. Ans.(a)**Sol.**

Let the total number of students in the university be x

$$\begin{aligned} \text{Valid votes} &= \frac{x \times 80}{100} - 120 \\ &= \frac{4x}{5} - 120 \end{aligned}$$

Atq,

$$\begin{aligned} \frac{3x}{8} + \left(\frac{3x}{8} - 30 \right) &= \frac{4x}{5} - 120 \\ \Rightarrow \frac{3x}{4} - 30 &= \frac{4x}{5} - 120 \end{aligned}$$

$$x = 1800$$

$$\text{No. of students who do not cast their votes} = 1800 \times \frac{20}{100} = 360$$

S64. Ans.(d)**Sol.**

Capacity of tank = LCM of 6 and 9 = 36 units

Total efficiency of A and B = $\frac{36}{6} = 6$ units/h

Total efficiency of B and C = $\frac{36}{9} = 4$ units/h

Let the efficiency of A, B and C be x , y and z units/h.

Then,

$$4(x + y) + 1(y + z) + 5 \times z = 36$$

$$\Rightarrow z = 1.6$$

$$\text{Time taken by C alone to fill the whole tank} = \frac{36}{1.6} = 22.5 \text{ h}$$

S65. Ans.(e)

Sol.

ATQ,

Total weight of all the members of the family = $18X$ kg

When three men got married

Total weight = $19(X + 3)$ kg

Weight of wives of all three = $(X + 57)$ kg

Weight of old man who died

= $(X + 75)$ kg

ATQ,

$19(X + 3) - (X + 75) = (X + 3 - 1) \times 16$

$X = 25$

S66. Ans.(d)

Sol.

(i) $x^2 + 9x = 25x - 63$

$$x^2 - 16x + 63 = 0$$

$$x = 9, 7$$

(ii) $4y^2 - 34y + 72 = 0$

$$4y^2 - 18y - 16y + 72 = 0$$

$$y = \frac{9}{2}, 4$$

$$\therefore x > y$$

S67. Ans.(c)

Sol.

(i) $\frac{1}{5} \times \frac{225}{x} = -x + 14$

$$-45 = x^2 - 14x$$

$$x^2 - 14x + 45 = 0$$

$$x^2 - 9x - 5x + 45$$

$$x = 9, 5$$

(ii) $21y = y^2 + 90$

$$y^2 - 21y + 90 = 0$$

$$y^2 - 15y - 6y + 90 = 0$$

$$y = 15, 6$$

\therefore No relation

S68. Ans.(a)

Sol.

(i) $6x + 7y = 15$

(ii) $3x + 14y = 19.5$

Solving (i) and (ii)

$$x = \frac{7}{6}, y = \frac{8}{7}$$

$$x > y$$



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A group of five men, likely Adda247 staff, standing together and smiling. They are wearing black shirts with the Adda247 logo.

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S69. Ans.(c)**Sol.**

$$(i) \quad 7x^2 + 5x - 18 = 0$$

$$7x^2 - 9x + 14x - 18 = 0$$

$$x(7x - 9) + 2(7x - 9) = 0$$

$$x = \frac{9}{7}, -2$$

$$(ii) \quad 3y^2 + 4y - 20 = 0$$

$$3y^2 + 10y - 6y - 20 = 0$$

$$y(3y + 10) - 2(3y + 10) = 0$$

$$y = 2, -\frac{10}{3}$$

∴ No relation

S70. Ans.(e)**Sol.**

$$(i) \quad x^2 + 5x = 25x$$

$$x^2 - 20x = 0$$

$$x(x - 20) = 0$$

$$x = 0, 20$$

$$(ii) \quad 3y^2 + 2y = 2y + 12$$

$$3y^2 = 12$$

$$y^2 = 4$$

$$y = \pm 2$$

∴ No relation

S71. Ans.(b)**Sol.** For person S

Quantity of water initially added by S in

$$\text{pure milk} = 1000 \times \frac{60}{100} \times \frac{18}{100} \times \frac{28}{72} = 42 \text{ lit.}$$

For person P

$$\text{Quantity of pure milk} = 1000 \times \frac{60}{100} \times \frac{12}{100} = 72 \text{ lit.}$$

$$\text{Percentage of mixture replaced} = \frac{72-54}{72} \times 100 = 25\%$$

$$\text{Final mixture} = 54 + 26 = 80 \text{ lit}$$

$$\text{Amount of mixture replaced with water} = 80 \times \frac{25}{100} = 20 \text{ lit.}$$

$$\text{Required percentage} = \frac{42-20}{20} \times 100 = 110\%$$

S72. Ans.(c)**Sol.** For person S

Quantity of water initially added by S in pure milk

$$= 1000 \times \frac{60}{100} \times \frac{18}{100} \times \frac{28}{72} = 42 \text{ lit.}$$

$$\text{Final quantity of mixture} = 1000 \times \frac{60}{100} \times \frac{18}{100} + 42 = 150 \text{ lit.}$$

$$\text{Quantity of milk in final mixture} = 150 - 78 = 72 \text{ lit}$$

For person R

$$\text{Quantity of pure milk} = 1000 \times \frac{60}{100} \times \frac{15}{100} = 90 \text{ lit.}$$

$$\text{Quantity of milk in final mixture} = 72 \times \frac{112.5}{100} = 81 \text{ lit.}$$

Amount of water added In pure milk initially

$$= 69 + 81 - 90 = 60 \text{ lit.}$$

S73. Ans.(d)**Sol.**

Quantity of water initially added by Q in pure milk

$$= 1000 \times \frac{60}{100} \times \frac{25}{100} \times \frac{50/3}{100-50/3} = 30 \text{ lit.}$$

Quantity of milk which is replaced with water = $150 - 120 = 30 \text{ lit.}$ Quantity of water in the final mixture = $30 + 30 = 60 \text{ lit.}$ **S74. Ans.(e)****Sol.**Quantity of pure milk for T = $1000 \times \frac{60}{100} \times \frac{30}{100} = 180 \text{ lit.}$

Quantity of water initially added by T in pure milk

$$= 1000 \times \frac{60}{100} \times \frac{30}{100} \times \frac{25}{75} = 60 \text{ lit.}$$

Quantity of water in the final mixture of T = $240 - 153 = 87 \text{ lit}$ Required profit percent = $\frac{87}{180} \times 100 = 48.33\% = 48\%$ **S75. Ans.(a)****Sol.**

quantity of pure milk sold to person S

$$= 1000 \times \frac{60}{100} \times \frac{18}{100} = 108 \text{ lit.}$$

Quantity of pure milk sold to person A

$$= 108 \times \frac{120}{100} = 129.6 \text{ lit}$$

Quantity of pure milk remained with Vikash

$$= 1000 \times \frac{40}{100} - 129.6 = 270.4 \text{ lit}$$

$$\text{Required ratio} = \frac{129.6}{270.4} = \frac{81}{169}$$

**S76. Ans.(b)****Sol.**Total items sold by store P = $8400 \times \frac{3}{7} = 3600$ Total items sold by store Q = $8400 \times \frac{4}{7} = 4800$

Let total item D sold by store P = x

So, total item A sold by store P = $\frac{7x}{6}$ And, total item C sold by store P = $(x - 160)$ Total item B sold by store P = $x + x \times \frac{7}{9}$

$$= \frac{16x}{9}$$

Total item E sold by store P = $\frac{16x}{9} - 1080$

ATQ -

$$x + \frac{7x}{6} + (x - 160) + \frac{16x}{9} + \left(\frac{16x}{9} - 1080\right) = 3600$$

$$\frac{18x + 21x + 18x - 2880 + 32x + 32x - 19440}{18} = 3600$$

$$121x - 22320 = 64800$$

$$121x = 87120$$

$$x = 720$$

Total item A sold by store P = $720 \times \frac{7}{6} = 840$
 Total item C sold by store P = $(720 - 160) = 560$
 Total item B sold by store P = $720 \times \frac{16}{9} = 1280$
 Total item E sold by store P

= $3600 - (720 + 840 + 560 + 1280) = 200$
 Total item D sold by store Q = $720 + 240 = 960$
 Total item B sold by store Q = $1280 \times \frac{9}{8} = 1440$
 Let total item A, C & E sold by store Q be 26y, 23y and 11y respectively

Now,
 $26y + 23y + 11y = (4800 - 960 - 1440)$
 $60y = 2400$
 $y = 40$

Items	Store 'P'	Store 'Q'
A	840	1040
B	1280	1440
C	560	920
D	720	960
E	200	440
Total	3600	4800

Total item A & D sold by P = $840 + 720 = 1560$

$$\text{Required percentage} = \frac{1560 - 1440}{1560} \times 100$$

$$= 7 \frac{9}{13} \%$$

S77. Ans.(d)

Sol.

Total items sold by store P = $8400 \times \frac{3}{7} = 3600$

Total items sold by store Q = $8400 \times \frac{4}{7} = 4800$

Let total item D sold by store P = x

So, total item A sold by store P = $\frac{7x}{6}$

And, total item C sold by store P = $(x - 160)$

Total item B sold by store P = $x + x \times \frac{7}{9}$
 $= \frac{16x}{9}$

Total item E sold by store P = $\frac{16x}{9} - 1080$

ATQ -

$$x + \frac{7x}{6} + (x - 160) + \frac{16x}{9} + \left(\frac{16x}{9} - 1080\right) = 3600$$
$$\frac{18x + 21x + 18x - 2880 + 32x + 32x - 19440}{18} = 3600$$

$$121x - 22320 = 64800$$

$$121x = 87120$$

$$x = 720$$

$$\text{Total item A sold by store P} = 720 \times \frac{7}{6} = 840$$

$$\text{Total item C sold by store P} = (720 - 160) = 560$$

$$\text{Total item B sold by store P} = 720 \times \frac{16}{9} = 1280$$

Total item E sold by store P

$$= 3600 - (720 + 840 + 560 + 1280) = 200$$

$$\text{Total item D sold by store Q} = 720 + 240 = 960$$

$$\text{Total item B sold by store Q} = 1280 \times \frac{9}{8} = 1440$$

Let total item A, C & E sold by store Q be 26y, 23y and 11y respectively

Now,

$$26y + 23y + 11y = (4800 - 960 - 1440)$$

$$60y = 2400$$

$$y = 40$$

Items	Store 'P'	Store 'Q'
A	840	1040
B	1280	1440
C	560	920
D	720	960
E	200	440
Total	3600	4800

$$\text{Required average} = \frac{720+960}{2}$$
$$= 840$$

S78. Ans.(e)

Sol.

$$\text{Total items sold by store P} = 8400 \times \frac{3}{7} = 3600$$

$$\text{Total items sold by store Q} = 8400 \times \frac{4}{7} = 4800$$

$$\text{Let total item D sold by store P} = x$$

$$\text{So, total item A sold by store P} = \frac{7x}{6}$$

$$\text{And, total item C sold by store P} = (x - 160)$$

$$\begin{aligned} \text{Total item B sold by store P} &= x + x \times \frac{7}{9} \\ &= \frac{16x}{9} \end{aligned}$$

$$\text{Total item E sold by store P} = \frac{16x}{9} - 1080$$

ATQ -

$$x + \frac{7x}{6} + (x - 160) + \frac{16x}{9} + \left(\frac{16x}{9} - 1080\right) = 3600$$

$$\frac{18x + 21x + 18x - 2880 + 32x + 32x - 19440}{18} = 3600$$

$$121x - 22320 = 64800$$

$$121x = 87120$$

$$x = 720$$

$$\text{Total item A sold by store P} = 720 \times \frac{7}{6} = 840$$

$$\text{Total item C sold by store P} = (720 - 160) = 560$$

$$\text{Total item B sold by store P} = 720 \times \frac{16}{9} = 1280$$

Total item E sold by store P

$$= 3600 - (720 + 840 + 560 + 1280) = 200$$

$$\text{Total item D sold by store Q} = 720 + 240 = 960$$

$$\text{Total item B sold by store Q} = 1280 \times \frac{9}{8} = 1440$$

Let total item A, C & E sold by store Q be 26y, 23y and 11y respectively

Now,

$$26y + 23y + 11y = (4800 - 960 - 1440)$$

$$60y = 2400$$

$$y = 40$$

Items	Store 'P'	Store 'Q'
A	840	1040
B	1280	1440
C	560	920
D	720	960
E	200	440
Total	3600	4800

Total number of item B, item C & item E sold by store P

$$= (1280 + 560 + 200) = 2040$$

Total number of item A & item D sold by store Q

$$= (1040 + 960) = 2000$$

$$\text{Required difference} = 2040 - 2000 = 40$$

S79. Ans.(d)**Sol.**

$$\text{Total items sold by store P} = 8400 \times \frac{3}{7} = 3600$$

$$\text{Total items sold by store Q} = 8400 \times \frac{4}{7} = 4800$$

$$\text{Let total item D sold by store P} = x$$

$$\text{So, total item A sold by store P} = \frac{7x}{6}$$

$$\text{And, total item C sold by store P} = (x - 160)$$

$$\begin{aligned} \text{Total item B sold by store P} &= x + x \times \frac{7}{9} \\ &= \frac{16x}{9} \end{aligned}$$

$$\text{Total item E sold by store P} = \frac{16x}{9} - 1080$$

ATQ -

$$x + \frac{7x}{6} + (x - 160) + \frac{16x}{9} + \left(\frac{16x}{9} - 1080\right) = 3600$$

$$\frac{18x + 21x + 18x - 2880 + 32x + 32x - 19440}{18} = 3600$$

$$121x - 22320 = 64800$$

$$121x = 87120$$

$$x = 720$$

$$\text{Total item A sold by store P} = 720 \times \frac{7}{6} = 840$$

$$\text{Total item C sold by store P} = (720 - 160) = 560$$

$$\text{Total item B sold by store P} = 720 \times \frac{16}{9} = 1280$$

$$\text{Total item E sold by store P}$$

$$= 3600 - (720 + 840 + 560 + 1280) = 200$$

$$\text{Total item D sold by store Q} = 720 + 240 = 960$$

$$\text{Total item B sold by store Q} = 1280 \times \frac{9}{8} = 1440$$

Let total item A, C & E sold by store Q be 26y, 23y and 11y respectively

Now,

$$26y + 23y + 11y = (4800 - 960 - 1440)$$

$$60y = 2400$$

$$y = 40$$

Items	Store 'P'	Store 'Q'
A	840	1040
B	1280	1440
C	560	920
D	720	960
E	200	440
Total	3600	4800

$$\text{Required percentage} = \frac{440 - 200}{200} \times 100 = 120\%$$

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S80. Ans.(c)**Sol.**

$$\text{Total items sold by store P} = 8400 \times \frac{3}{7} = 3600$$

$$\text{Total items sold by store Q} = 8400 \times \frac{4}{7} = 4800$$

$$\text{Let total item D sold by store P} = x$$

$$\text{So, total item A sold by store P} = \frac{7x}{6}$$

$$\text{And, total item C sold by store P} = (x - 160)$$

$$\begin{aligned} \text{Total item B sold by store P} &= x + x \times \frac{7}{9} \\ &= \frac{16x}{9} \end{aligned}$$

$$\text{Total item E sold by store P} = \frac{16x}{9} - 1080$$

ATQ -

$$x + \frac{7x}{6} + (x - 160) + \frac{16x}{9} + \left(\frac{16x}{9} - 1080\right) = 3600$$

$$\frac{18x + 21x + 18x - 2880 + 32x + 32x - 19440}{18} = 3600$$

$$121x - 22320 = 64800$$

$$121x = 87120$$

$$x = 720$$

$$\text{Total item A sold by store P} = 720 \times \frac{7}{6} = 840$$

$$\text{Total item C sold by store P} = (720 - 160) = 560$$

$$\text{Total item B sold by store P} = 720 \times \frac{16}{9} = 1280$$

$$\text{Total item E sold by store P}$$

$$= 3600 - (720 + 840 + 560 + 1280) = 200$$

$$\text{Total item D sold by store Q} = 720 + 240 = 960$$

$$\text{Total item B sold by store Q} = 1280 \times \frac{9}{8} = 1440$$

Let total item A, C & E sold by store Q be 26y, 23y and 11y respectively

Now,

$$26y + 23y + 11y = (4800 - 960 - 1440)$$

$$60y = 2400$$

$$y = 40$$

Items	Store 'P'	Store 'Q'
A	840	1040
B	1280	1440
C	560	920
D	720	960
E	200	440
Total	3600	4800

$$\begin{aligned} \text{Required ratio} &= \frac{(1280+720)}{(1040+960)} \\ &= 1 : 1 \end{aligned}$$



S81. Ans.(d)

Sol. To validate the answer, refer to the first paragraph of the given passage, which mention, “*Such conflicts are exacerbated by the fact that, in many democratic countries, voters have tilted in a populist direction, rejecting parties that espouse traditional policies of open trade and economic integration.*” Here, statement (d) clearly justifies the quoted text. Hence, option (d) is the most suitable answer choice.

S82. Ans.(c)

Sol. Here, to validate the answer refer to the second and third paragraph of the given passage, which mentions, “*The United States and China agreed to a temporary truce in their ongoing trade war....*” and “*Another big issue at the G20 Summit was US relations with its traditional European and Japanese allies.*” Here, both the quoted statements have been justified in statements (i), (ii), (iii). Hence, option (c) is the most suitable answer choice.

S83. Ans.(e)

Sol. To validate the answer, refer to the last few lines of the second paragraph of the given passage, which mentions, “*Either China accedes to US demands regarding structural economic issues (which seems unlikely), or the United States accepts a superficial deal and declares victory. The latter could happen if the United States were to worry that further trade tensions might undermine the economic recovery.*” Here, the statement given in option (e) clearly justifies the quoted text. Hence, option (e) is the most suitable answer choice.

S84. Ans.(b)

Sol. To validate the answer, refer to the first few lines of the second paragraph of the passage given above, which mention, “*Yet it was relatively vague and uncontroversial, offering support for free trade and innovation as drivers of economic growth, but failing to condemn protectionism for the first time since the G20 leaders started meeting in 2008.*” Here, we can infer the quoted text from the statement given in option (b). Hence, option (b) is the most suitable answer choice.

S85. Ans.(d)

Sol. To validate the answer, refer to the first paragraph of the given passage, which mentions, “*The meetings in 2008 and 2009 were crucial in that they resulted in a joint commitment to avoid protectionist policies in the face of rising unemployment and populist sentiment. Finally, the meeting in 2009 entailed a joint commitment to use fiscal and monetary policies to stabilize the global economy.*” Here, we can infer the quoted text from the statement given in option (d). Hence, option (d) is the most suitable answer choice.

S86. Ans.(c)

Sol. Refer to the line, “*GDP growth has slowed down, global outlook turning gloomy amid heightened trade tensions and fear of prolonged slowdown in the euro zone*”. The statements (II) and (III) can be inferred from this line. But, statement (I) is not discussed. So, option (c) is the correct answer choice.

S87. Ans.(b)

Sol. As per the lines, “*the government’s focus on international borrowings will prevent crowding out the private sector borrowing in the domestic market as well as help establish sovereign yield curve. Lower borrowing in the domestic market should be positive for currency, interest rate, and therefore interest cost will come down. Housing has been and continues to be a priority for the government.*” Hence, option (b) is the only correct choice.

S88. Ans.(b)

Sol. The line before (A) is discussing about the incentives on home loans. This will be beneficial for the borrower of the home loan. So, options (a) and (c) are not correct as per the context of the passage. Only option (b) is correct answer choice.

S89. Ans.(a)

Sol. The passage discusses about the budget formulated by the Finance Minister. Budgetary decisions for various sectors are discussed in the passage. So, option (a) is correct option choice.

S90. Ans.(d)

Sol. The last paragraph, *“The Finance Minister has acknowledged the role played by the NBFCs in the growth of the economy and said that the government will provide one-time six-month partial credit guarantee to PSU banks for first loss up to 10% for the purchase of high-rated pooled assets of financially-sound NBFCs. This will incentivise banks to lend to NBFCs. and Ms. Sitharaman has cut the tax rate to 25% for all the corporates with an annual turnover of up to ₹400 crore from the earlier ₹250 crore, thus covering 99.30% of all corporates in India”* proves statements (b) and (c) correct. Hence, option (d) is correct answer choice.

S91. Ans.(c)

Sol. Precipitate: done, made, or acting suddenly or without careful consideration.

Rejuvenate: make (someone or something) look or feel better, younger, or more vital

Debase: reduce the quality or value of something

Acolyte: an assistant or follower

Thus, using **“Precipitate”** in the sentence *“Any precipitate action by the Centre to have its way would have created more problems”* meant that the hurried action of Centre would result in problems. Other words do not fit in the sentence.

Hence, answer should be option (c).

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S92. Ans.(b)

Sol. Expeditious: done with speed and efficiency, immediate

Haven: A place of safety or refuge, sanctum, sanctuary

Repatriate: send back their own country

Ambiguity: the quality of being open to more than one interpretation

As word **“Expeditious”** means **“immediate”**, so use of this word will make the sentence as *“the Centre was expecting an immediate resolution”*

Hence, answer should be option (b).

S93. Ans.(a)


Sol. Use of the word **“referred”** is correct making the sentence as *“The first one has been referred to a department of the RBI for examination”*. Hence, option (a) is correct answer choice.

Riled: make (someone) annoyed or irritated

Finagled: obtain by dishonest or devious means

Gleaned: obtain (information) from various sources, often with difficulty

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S94. Ans.(d)

Sol.

Staved: avert or delay something bad or dangerous.

Altercation: a noisy argument or disagreement

Entrench: fixed firmly or securely

Chortled: to chuckle, laugh merrily, often in a breathy, muffled way

The sentence means that the Centre's attempt to tap the RBI's rich reserves has also been reverted off for now. Thus, option (d) is correct answer choice.

S95. Ans.(b)

Sol.

Perplexing: completely baffling; very puzzling

Weaning: be strongly influenced by (something), especially from an early age

Debilitating: (of a disease or condition) making someone very weak and infirm

Only "transferring" fits in the given blank.

Hence option (b) is correct answer choice.

S96. Ans.(a)

Sol.

Envisage: contemplate or conceive of as a possibility

Unsparring: merciless; severe

Diffident: showing modest reserve; lacking self-confidence

Hence option (a) is correct answer choice.

S97. Ans.(b)

Sol.

Yielded: to give up the control of or responsibility for something, concede

Stymied: prevent or hinder the progress of

Coaxed: gently and persistently persuade (someone) to do something

Emboldened: give (someone) the courage or confidence to do something

Only "**yielded**" fits in the sentence. Others don't make a contextually and grammatically correct sentence.

Hence option (b) is correct answer choice.

S98. Ans.(d)

Sol.

Concede: to admit, often unwillingly, that something is true:

Barb: a remark that is funny but unkind

Reticent: disinclined to talk, not revealing one's thought

Voluble: talking fluently, readily, or incessantly.

The use of word "concede" makes the line "RBI didn't **concede** the demand for alignment of the capital norms to Base" meaningful and grammatically correct.

Hence option (d) is correct answer choice.

S99. Ans.(a)**Sol.**

Recast: present or organize in a different form or style.

Referendum: a general vote by the electorate on a single political question

Strait: a difficult situation, especially because of financial problems

Acerbity: bitterness of speech and temper

Hence option (a) is correct answer choice.

S100. Ans.(d)**Sol.**

Eloquent: fluency or persuasiveness in speaking or writing.

The right option that would fit in the given blank is "Probably".

Hence option (d) is correct answer choice.

S101. Ans.(b)

Sol. The word that fits in the given blanks correctly is "Approach". Using "Approach" makes the paragraph contextually meaningful and grammatically correct.

Dregs means a small residue

Strait means a difficult situation, especially because of financial problems

Abject means showing lack of self-respect

S102. Ans.(a)

Sol. Reading the paragraph one can infer that "Insolvent" fits in the given blanks. Hence, option (a) is correct answer choice.

Fawning means praise someone too much

Aegis means with the protection or support of someone or something, especially an organization

Doggerel means poetry that is silly or badly written

S103. Ans.(d)

Sol. "Viable" means "capable of working successfully; feasible". In terms of biology "Viable" means "capable of surviving or living successfully, especially under particular environmental conditions." Hence, option (d) is the correct answer choice.

Venal: quality of being open to bribery or overly motivated by money

Chortle: to chuckle, laugh merrily, often in a breathy, muffled way

Opulent: ostentatiously costly and luxurious

S104. Ans.(b)

Sol. "Defer" means "put off (an action or event) to a later time; postpone". The Councillors decided to defer a controversial mill extension. Hence, option (b) is correct answer choice.

Platitude: a statement that has been repeated so often that it is meaningless

reticent: disinclined to talk, not revealing one's thought

buoyant: cheerful and optimistic.

S105. Ans.(c)

Sol. The word “strong” is correct choice. All other words don’t go with the theme of the given passage.

Eloquent: fluent in speaking or writing.

Precarious: in a way that is not securely in position and is likely to fall or collapse

Impound: seize and take legal custody of (something, especially a vehicle, goods, or

S106. Ans.(a)

Sol. Going through the given sentences we can make pair of sentences on the basis of the sense they are conveying. For example, (A) will be followed by (G) because (A) is talking about the steps taken by Government which is being carried forward in (G). The next logical pair would be (D) followed by (B) because the sentence (D) is talking about the reason of negative trend in emerging markets this is further supported by the rate cut by Federal Reserve as can be understood by the phrase ‘played the spoilsport’. Next pair would be (F) followed by (C) because (C) is highlighting the factors responsible for the fall in stocks as discussed in (F). Having made three pairs (A)(G), (D)(B) and (F)(C). However (E) fails to make a coherent sense with anyone. Now to select the first sentence in the arrangement we have to choose from (A), (D) and (F). But (D) cannot be the first sentence in the rearrangement because of the use of the starter ‘While’. From the remaining two (F) definitely will be the first sentence in rearrangement because in (A) the phrase ‘added fuel to the fire’ gives the hint that some incident must have taken before it and hence cannot be the first sentence. So the correct sequence after rearrangement will be **FCAGDB**. Hence, the correct answer choice is option (a).

S107. Ans.(d)

Sol. Going through the given sentences we can make pair of sentences on the basis of the sense they are conveying. For example, (A) will be followed by (G) because (A) is talking about the steps taken by Government which is being carried forward in (G). The next logical pair would be (D) followed by (B) because the sentence (D) is talking about the reason of negative trend in emerging markets this is further supported by the rate cut by Federal Reserve as can be understood by the phrase ‘played the spoilsport’. Next pair would be (F) followed by (C) because (C) is highlighting the factors responsible for the fall in stocks as discussed in (F). Having made three pairs (A)(G), (D)(B) and (F)(C). However (E) fails to make a coherent sense with anyone. Now to select the first sentence in the arrangement we have to choose from (A), (D) and (F). But (D) cannot be the first sentence in the rearrangement because of the use of the starter ‘While’. From the remaining two (F) definitely will be the first sentence in rearrangement because in (A) the phrase ‘added fuel to the fire’ gives the hint that some incident must have taken before it and hence cannot be the first sentence. So the correct sequence after rearrangement will be **FCAGDB**. Hence, the correct answer choice is option (d)

S108. Ans.(a)

Sol. Going through the given sentences we can make pair of sentences on the basis of the sense they are conveying. For example, (A) will be followed by (G) because (A) is talking about the steps taken by Government which is being carried forward in (G). The next logical pair would be (D) followed by (B) because the sentence (D) is talking about the reason of negative trend in emerging markets this is further supported by the rate cut by Federal Reserve as can be understood by the phrase ‘played the spoilsport’. Next pair would be (F) followed by (C) because (C) is highlighting the factors responsible for the fall in

stocks as discussed in (F). Having made three pairs (A)(G), (D)(B) and (F)(C). However (E) fails to make a coherent sense with anyone. Now to select the first sentence in the arrangement we have to choose from (A), (D) and (F). But (D) cannot be the first sentence in the rearrangement because of the use of the starter 'While'. From the remaining two (F) definitely will be the first sentence in rearrangement because in (A) the phrase 'added fuel to the fire' gives the hint that some incident must have taken before it and hence cannot be the first sentence. So the correct sequence after rearrangement will be **FCAGDB**. Hence, the correct answer choice is option (a)

S109. Ans.(b)

Sol. Going through the given sentences we can make pair of sentences on the basis of the sense they are conveying. For example, (A) will be followed by (G) because (A) is talking about the steps taken by Government which is being carried forward in (G). The next logical pair would be (D) followed by (B) because the sentence (D) is talking about the reason of negative trend in emerging markets this is further supported by the rate cut by Federal Reserve as can be understood by the phrase 'played the spoilsport'. Next pair would be (F) followed by (C) because (C) is highlighting the factors responsible for the fall in stocks as discussed in (F). Having made three pairs (A)(G), (D)(B) and (F)(C). However (E) fails to make a coherent sense with anyone. Now to select the first sentence in the arrangement we have to choose from (A), (D) and (F). But (D) cannot be the first sentence in the rearrangement because of the use of the starter 'While'. From the remaining two (F) definitely will be the first sentence in rearrangement because in (A) the phrase 'added fuel to the fire' gives the hint that some incident must have taken before it and hence cannot be the first sentence. So the correct sequence after rearrangement will be **FCAGDB**. Hence, the correct answer choice is option (b)

S110. Ans.(c)

Sol. From the given sentences, only option (c) is able to make a coherent sense in the rearrangement because the given sentence is talking about the downfall in the market by supporting it with providing facts and figures whereas remaining options fail to do so. Hence, the correct answer choice is option (c)

S111. Ans.(d)

Sol. Here, the error lies in the statement given in option (d), where "Since" will be replaced with "For". Both "for" and "since" show an event that began in the past and continues into the present but "for" is used with a period of time and "Since" is used to refer to a specific point in time.

Eg: I have been walking for five hours.

I have been walking since 10 p.m.

S112. Ans.(b)

Sol. Here, the error lies in the statement given in option (b), where "beaver around" will be replaced with "beaver away". The correct phrasal verb, "beaver away" means "to work hard at something". Hence, option (b) is the most suitable answer choice.

S113. Ans.(a)

Sol. Here, the error lies in the statement given in option (a), where, "would not have" will be replaced by "had not" because in case of unfulfilled desires, wishes, condition, the correct structure of the statement would be "If+ Subject+ had+ V3, Sub+ would/could/ might/ should+ have+ been V3." Hence, option (a) is the most suitable answer choice.

S114. Ans.(e)

Sol. All the statements given above are correct and do not require any improvement. Hence, option (e) is the most suitable answer choice.

S115. Ans.(c)

Sol. Here, the error lies in the statement given in option (c) where, “objected” will be followed by a preposition “to”. Hence, option (c) is the most suitable answer choice.

S116. Ans.(d)

Sol. Here, the given paragraph mentions how start-ups may use the tax exemptions available for them as a tool of money laundering. Here, “**entrench**” makes the statement grammatically incorrect which will thus be replaced with “**deter**”. Hence, option (d) is the most suitable answer choice.

Launder: conceal the origins of (money obtained illegally), typically by transfers involving foreign banks or legitimate businesses.

Chortle: laugh in a noisy, gleeful way.

Entrench: establish (an attitude, habit, or belief) so firmly that change is very difficult or unlikely

Deter: discourage (someone) from doing something by instilling doubt or fear of the consequences

Justifiable: able to be shown to be right or reasonable; defensible

Preclude: prevent from happening; make impossible.

S117. Ans.(c)

Sol. The paragraph given above mentions the gold schemes and chit funds which are not under the regulation of government regulators and therefore have been used by miscreants for fraudulent activities. Here, “culminate” will be replaced with “swindle”, which will make the statement contextually correct. Also, “hienous” will be replaced with “heinous” as the given spelling is incorrect. Hence, option (c) is the most suitable answer choice.

Purview: the scope of the influence or concerns of something

Gainsay: deny or contradict

Culminate: reach a climax or point of highest development

Swindle: use deception to deprive (someone) of money or possessions

S118. Ans.(d)

Sol. The paragraph given above mentions the statement by FM Arun Jaitley who has assured that there won't be revenue hits due to the rate cut. He has further stated that the higher sales volumes would compensate the national income growth which may force the developers to raise base prices as an inevitable consequence of rate cuts. Here, all the three highlighted words have been incorrectly placed and will therefore require improvement. Hence, option (d) is the most suitable answer choice.

Engender: cause or give rise to

Reckon: be of the opinion

Rustic: made in a plain and simple fashion

Exchequer: a royal or national treasury.

Eschew: deliberately avoid using; abstain from

Entail: involve (something) as a necessary or inevitable part or consequence



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S119. Ans.(e)

Sol. All the highlighted words make the statement grammatically and contextually meaningful and therefore do not require any improvements. Hence, option (e) is the most suitable answer choice.

S120. Ans.(a)

Sol. The paragraph given above discusses how the weaknesses in the farm sector have supported deteriorating farm prices and also that the MPC is well aware of the fragility of the assumptions it had made regarding the sector. Here, “undergrinding” and “vociferous” have been incorrectly used and do not contextually fit in the paragraph. We will replace “**undergrinding**” with “**undergirding**” and “**vociferous**” with “**cognizant**”. Hence, option (a) is the most suitable answer choice.

Undergirding: provide support or a firm basis for

Vociferous: expressing or characterized by vehement opinions; loud and forceful

Cognizant: having knowledge or awareness

S121. Ans.(b)

Sol. Ctrl + B is the shortcut key to make text bold in Excel

S122. Ans.(b)

Sol. We can use the filters to block Web pages or websites that contain objectionable content or advertisement.

S123. Ans.(b)

Sol. Download refers to the process of obtaining software or other files on your computer from a computer network or the Internet.

S124. Ans.(d)

Sol. Software is a set of computer programs used on a computer to help perform tasks. Computer software, or simply software, is that part of a computer system that consists of encoded information or computer instructions, in contrast to the physical hardware from which the system is built.

S125. Ans.(a)

Sol. A motherboard is that part of a CPU which coordinates all the activities of a computer system. Various types of hardware are attached on the motherboard to facilitate these activities.

S126. Ans.(b)**S127. Ans.(b)****S128. Ans.(d)**

Sol. Using a query makes it easier to view, add, delete, or change data in your Access database. Some other reasons for using queries: Find specific quickly data by filtering on specific criteria (conditions), Calculate or summarize data. Automate data management tasks, such as reviewing the most current data on a recurring basis.

S129. Ans.(c)

Sol. Digital Computers use Binary System.

S130. Ans.(c)

Sol. The working of Bluetooth devices is based on a master/slave model. This model contains 266 devices out of which one is a master device and 255 and slave devices. Any device can be master and the master device can select up to seven slave devices and communicate with them simultaneously.

S131. Ans.(c)

Sol. FLV (Flash Video Format), the FLV file extension is a file that uses Adobe Flash Player or Adobe Air to transmit video/audio over the internet. Flash Video has long been the standard video format used by nearly all embedded video on the internet including the videos found on YouTube, Hulu, and many more websites.

S132. Ans.(a)

Sol. Those commands, options are available in menu bar.

S133. Ans.(a)

Sol. Booting is a startup sequence that starts the operating system of a computer when it is turned on. A boot sequence is the initial set of operations that the computer performs when it is switched on. Every computer has a boot sequence. The average computer doesn't understand the boot sequence but is important to know for customizing and troubleshooting your computer.

S134. Ans.(a)**S135. Ans.(d)****S136. Ans.(d)**

Sol. Handouts are documents you can print from within PowerPoint that include slide representations from your presentation -- you can opt to include as many as 9 slides on each handout page, and then the slides look more like thumbnails.

S137. Ans.(d)

Sol. Hexadecimal number system has base 16, Octal- Base 8, Binary- Base 2 and Decimal- Base 10

S138. Ans.(a)

Sol. Word allows you to add comments to your document, as a separate element of the document. Comments do not interfere with the main text and appear in their own area of the document.

S139. Ans.(b)

Sol. Automated speech recognition (ASR) is a technology that allows users of information systems to speak entries rather than punching numbers on a keypad.

S140. Ans.(c)

Sol. The Hypertext Transfer Protocol (HTTP) is an application protocol for distributed, collaborative, hypermedia information systems. HTTP is the foundation of data communication for the World Wide Web.

S141. Ans.(c)

Sol. 202.101.10.10 is an IP address

S142. Ans.(c)

Sol. Paint, PowerPoint and Word are application software. Microsoft Edge is the new browser built for Windows 10. Edge is faster, safer and gives you longer battery life.

S143. Ans.(a)

Sol. encryption is the process of encoding messages or information in such a way that only authorized parties can read it.

S144. Ans.(a)

Sol. The first electronic digital computer contained electronic valves.

S145. Ans.(c)

Sol. Visual FoxPro is a data-centric, object-oriented, procedural, programming language produced by Microsoft. It is derived from FoxPro (originally known as FoxBASE) which was developed by Fox Software beginning in 1984.

S146. Ans.(e)

Sol. A protocol identifier, www and the unique registered domain name are requisite for a URL

S147. Ans.(b)

Sol. Television is an example of simplex communication.

S148. Ans.(b)

Sol. OMR stands for Optical Mark Recognition. This technology is used to read the marked data on documents. It is widely used in examinations to check the marked answers.

S149. Ans.(c)**S150. Ans.(c)**

Sol. A Macro instruction is a line of computer program coding that results in one or more lines of program coding in the target programming language, sets variables for use by other statements, etc.

S151. Ans.(a)

Sol. Application software is a term which is used for software created for a specific purpose. It is generally a program or collection of programs used by end users.

S152. Ans.(a)

Sol. Java was introduced by Sun Microsystems.

S153. Ans.(d)

Sol. A blog is a regularly updated website or web page, typically one run by an individual or small group, that is written in an informal or conversational style.

S154. Ans.(c)

Sol. The first SIM card was developed in 1991 by Munich smart card maker Giesecke & Devrient, who sold the first 300 SIM cards to the Finnish wireless network operator Radiolinja. A subscriber identity module is a removable smart card for mobile phones. SIM cards store the required information to identify the mobile device.

S155. Ans.(d)

Sol. VOIP is an acronym for Voice Over Internet Protocol, or in more common terms phone service over the Internet.

If you have a reasonable quality Internet connection you can get phone service delivered through your Internet connection instead of from your local phone company.

S156. Ans.(e)

Sol. All of the given options are different types of router functions.

S157. Ans (d)

Sol. Updating is periodically adding, changing and deleting file records

S158. Ans.(d)

Sol. A bootstrap is the process of starting up a computer. It also refers to the program that initializes the operating system (OS) during start-up.

S159. Ans.(c)

Sol. The insert, cap lock and num lock are all examples of Toggle keys. A toggle key toggles the input from a group of keys on a keyboard between two different input modes.

S160. Ans.(b)

Sol. Speed of line printer is specified in terms of Character per minute.

S161. Ans.(c)

Sol. Researcher from the University of Michigan will collaborate with All India Institute of Medical Sciences and Kasturba Medical College – Manipal with the help of a grant from the National Institute of Health. The grants which come up to \$ 2.3 million will be used for the research to expand genetic testing in India. The partnership is expected to help the geneticists in identifying and confirming that genetic changes are the basis of developmental disorders.

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S162. Ans.(a)

Sol. HSBC has launched beta testing of its first mobile business banking service, called Kinetic, which will provide similar features of a current business account, along with a debit card, the ability to send and receive payments through a mobile app and obtain 24/7 account information on a mobile device.

S163. Ans.(b)

Sol. India will host the 19th council of heads of government of the Shanghai Cooperation Organisation next year, the first such high level meeting of the eight-member grouping to be organised by New Delhi.

S164. Ans.(c)

Sol. The four-day Ocean Dance Festival 2019 in Bangladesh's Cox's Bazaar, with the theme of "Bridging the Gap"

S165. Ans.(d)

Sol. Chairman of Sundram Fasteners Ltd. Suresh Krishna was conferred the 'Quality Ratna' award by the CII Institute of Quality at its 27th Quality Summit held in Bengaluru.

S166. Ans.(c)

Sol. Term Money refers to borrowing/lending of funds for period between 15 days and one year.

S167. Ans.(d)

Sol. The Clearing Corporation of India Ltd. (CCIL) was set up in 2001 commenced business operations in the securities market on February 15, 2002. CCIL provides an institutional infrastructure for the Clearing and Settlement of transactions by banks, financial institutions and primary dealers, in Government Securities, Money Market instruments, Foreign Exchange and other related products

S168. Ans.(d)

Sol. Capital Market. There are broadly two types of financial markets in an economy – capital market and money market. The capital market deals in financial instruments and commodities that are long-term securities. Capital market have to classification one is primary market and other one is secondary market. The primary market is market where fresh issue of securities takes place and in secondary market the dealings of already issued shares take place.

S169. Ans.(d)

Sol. David Rasquinha appointed as managing director of Export-Import Bank of India (Exim Bank).

S170. Ans.(a)

Sol. Small Finance Banks are registered as public limited company and are licensed under section 22 of the Banking Regulation,1949 and primarily governed by Banking Regulation Act,1949 and RBI Act,1934.

S171. Ans.(c)

Sol. The Reserve Bank of India will make available the National Electronic Funds Transfer system on a 24×7 basis from December 2019 as per the Payment System Vision 2021 document. Presently, the transfer of funds via NEFT can only be done during banks' working hours. The facility of electronic transfer of funds is available from 8 am to 7 pm on all working days, except the second and the fourth Saturday of the month.

S172. Ans.(b)

Sol. Mastercard announced the launch of Identity Check Express, a next-generation, mobile-first authentication solution that aims to redefine the e-commerce journey for Indian consumers. Mastercard Identity Check Express combines the latest technology, including device intelligence and behavioural biometrics, with the latest EMV 3-D Secure and FIDO authentication standards to deliver an uninterrupted mobile payment experience.

S173. Ans.(a)

Sol. Mukesh Kumar Jain has been appointed as Managing Director & Chief Executive Officer, Oriental Bank of Commerce and assumed charge on 15th July 2017.

S174. Ans.(b)

Sol. United Bank of India is an Indian government-owned bank headquartered in Kolkata.

S175. Ans.(b)

Sol. Sanjiv Chadha is the present Managing Director & CEO of Bank of Baroda.

S176. Ans.(b)

Sol. Russia has launched first Arctic train service running from St. Petersburg station headed to Norway.

S177. Ans.(b)

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

S178. Ans.(a)

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

S179. Ans.(d)

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

S180. Ans.(b)

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

S181. Ans.(d)

Sol. Public sector lender Canara Bank said its Managing Director and CEO R A Sankara Narayanan has retired.

S182. Ans.(c)

Sol. Union Finance Minister Nirmala Sitharaman in her budget speech 2020 has proposed to hike the bank deposit insurance in scheduled commercial banks to Rs 5 lakh per depositor from the current Rs 1 lakh.

S183. Ans.(d)

Sol. Range increase in forest cover has been observed in open forest followed by very dense forest and moderately dense forest and the top three states showing increase in forest cover are Karnataka (1,025 sq. km) followed by Andhra Pradesh (990 sq km) and Kerala (823 sq km).

S184. Ans.(c)

Sol. Maharashtra has become the first state in the country to integrate its land records with the web portal of the Pradhan Mantri Fasal Bima Yojana (PMFBY).

S185. Ans.(a)

Sol. Graphic designer Sneha Pamneja was awarded this year's Oxford Bookstore Book Cover Prize at the ongoing Jaipur Literature Festival for designing the cover of "Tiffin: Authentic Recipes Celebrating India's Regional Cuisine".

S186. Ans.(c)

Sol. ICICI Lombard has received IRDAI'S approval to pilot five innovative applications and programs in its health and motor portfolio under the Sandbox Project.

Insurance Regulatory and Development Authority of India's (IRDAI) Regulatory Sandbox Project has provided the insurance industry with the flexibility to explore new products and services that suit today's technology and data driven world.

S187. Ans.(a)

Sol. 5th Round of India-Japan Maritime Affairs Dialogue was held in Tokyo. Indian delegation was led by Shri Indra Mani Pandey, Additional Secretary (Disarmament and International Security Affairs), Ministry of External Affairs, while Japanese delegation was led by Ambassador Yamanaka A Osamu, Deputy Assistant Minister, Deputy Director-General in Foreign Policy Bureau. The two sides exchanged views on various topics of mutual interest in maritime domain and identified the means for further strengthening their maritime cooperation.

S188. Ans.(d)

Sol. With ATM-related frauds on the rise, banks are introducing ways to protect their customers from tricksters. The country's largest public sector lender, the State Bank of India (SBI), introduced a one-time password (OTP)-based cash withdrawal system for its ATMs. The bank said that this facility will be available for transactions above Rs 10,000 between 8 pm and 8 am

S189. Ans.(a)

Sol. India's first university exclusively for transgender people to facilitate education for the community from class 1 to postgraduation, is set to open in Uttar Pradesh's Kushinagar district. The university, which will be opened in Fazilnagar block of the district, is being built by the Akhil Bhartiya Kinnar Siksha Seva Trust (All-India transgender education service trust).

S190. Ans.(c)

Sol. Former Asian Games silver medalist boxer Sumit Sangwan has been banned for one year with immediate effect by the National Anti-Doping Agency (NADA) for failing doping test

S191. Ans.(a)

Sol. World Wetlands Day is observed every year on the 2nd of February to spread awareness on the need to conserve wetlands all over the world

S192. Ans.(c)

S193. Ans.(a)

S194. Ans.(b)

Sol. Uhuru Kenyatta is the President of Kenya. Nairobi is the Capital of Kenya and Currency is Kenyan shilling.

S195. Ans.(a)

Sol. Kota is a city located in the southeast of northern Indian state of Rajasthan. It is located Around 250 kilometers south of the state capital, Jaipur, situated on the banks of Chambal River.

S196. Ans.(c)

Sol. Prime Minister Narendra Modi launched the Sardar Sarovar Dam - the world's second biggest - on the river Narmada in Gujarat.

S197. Ans.(c)

Sol. Karma dance which is also popularly known as Karma Naachis performed by the tribes of Jharkhand, Chhattisgarh, Madhya Pradesh, Bihar, Orissa and other regions of the country. This tribal dance is performed during the autumnal festival of Karma Puja.

S198. Ans.(c)

Sol. Pattadakal Dance Festival is an annual dance festival which is held annually in Pattadakal, a small town located in the southern state of Karnataka, India.

S199. Ans.(a)

Sol. HSBC (The Hongkong and Shanghai Banking Corporation) was the first bank to introduce the ATM concept in India way back in 1987. It was from Diebold and installed at Andheri, Mumbai.

S200. Ans.(b)

Sol. The Bori Wildlife Sanctuary (BWS) is located in Hoshangabad District of Madhya Pradesh.

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