Memory Based Paper

SBI Clerk Prelims

2021

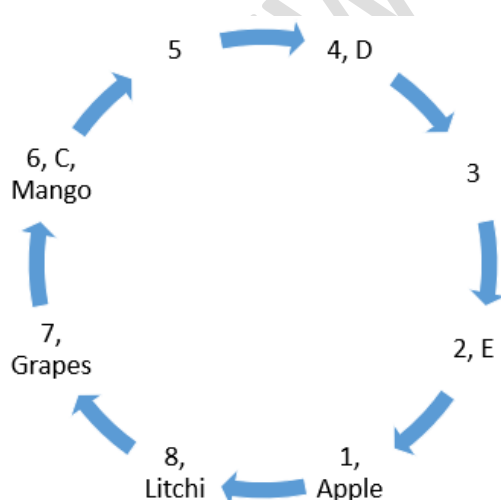**Direction:- Read the following information and answer the questions that follow:**

Eight persons i.e. A, B, C, D, E, F, G, and H are sitting around a circular table but not necessarily in the same order. They all are facing towards the centre of the table. Each of them like different fruits viz. Banana, Grapes, Apple, Mango, Litchi, Pineapple, Papaya, and Kiwi.

(i) D sits third to the right of the one who likes Apple.

(ii) C likes Mango and sits second to the left of the one who likes Litchi.

(iii) D does not like Litchi. D is not an immediate neighbour of C.

(iv) D is not an immediate neighbour of the one who likes Litchi.

(v) There are only two persons siting between D and the one who like the Grapes.

(vi) Only A sits between G and H. F sits second to the left of G.

(vii)There are only two persons sitting between the persons who like Pineapple and Banana.

(viii)   The person who likes Kiwi is not sitting opposite to the one who likes Litchi.

(ix) The person who likes Papaya is not an immediate neighbour of the one who likes Pineapple.

(x) The one who likes Litchi sits second to the left of E.

Solution:- From (i), the one who likes Apple will sit place no. 1 and D will sit at place no. 4.

From (v), the one who like the Grapes will sit place no. 7.

From (ii), (iii), (iv) and (x), the one who likes Litchi will sit place no. 2 and C will sit at place no. 6. E will sit at place no. 2.
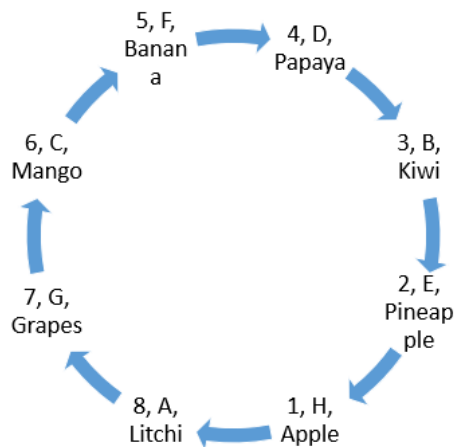

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From (vi), three consecutive places are left for A, G and H are 7 , 8 and 1. So, G, A and H will sit at place no. 7, 8 and 1 respectively. F will sit at place no. 5.
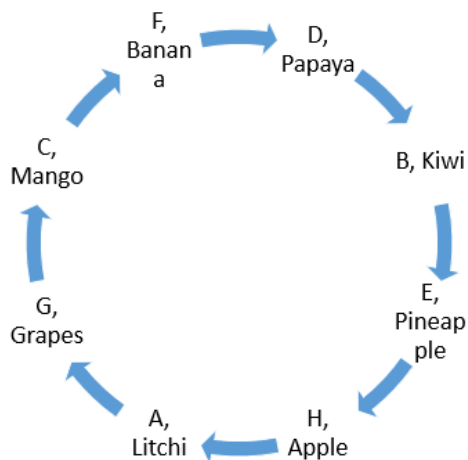
From (vii) and (viii), the persons who like Pineapple and Banana can be seated either at place no. 5 or 2. The person who likes the Kiwi cannot sit at place no. 4. Only place left for Kiwi is place no. 3.

From (ix), it is clear that the persons who like Pineapple and Banana will sit at place no. 2 and 5 respectively. The person who likes the Papaya will sit at place no. 4.

Only person left for place no. 3 is B.

Final arrangement as shown below:

3

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Question No. 1

Who sits second to the right of the one who like Papaya?

Options :

1. E

2. D

3. A

4. C

5. H

Answer : C

Question No. 2

How many persons sit between A and the one who like Kiwi if counted anticlockwise from A?

Options :

1. One

2. Two

3. Three

4. Four

5. No one

Answer : Two

Question No. 3

Who sits exactly opposite to G?

Options :

1. B

2. The one who like Pineapple

3. The one who like Kiwi

4. D

5. None of these

Ans- The one who like Kiwi

Question No. 4

According to the given sitting arrangement, B is related to Banana and G is related to Apple. In the same way, A is related to which of the following?

Options :

1. Mango
2. Pineapple
3. Kiwi
4. Litchi
5. None of these

Answer : Pineapple

Question No. 5

If F interchanges his position with H and G interchanges his position with B, then who sits third to the right of G?

Options :

1. E
2. C
3. The one who likes Mango
4. The one who likes Pineapple
5. Both C and the one who likes Mango

Answer : Both C and the one who likes Mango

Direction:- Read the given information carefully and answer the questions:

Eight boxes P, Q, R, S, T, U, V and W are placed one above another (but not necessarily in the same order). No two boxes according to alphabetical order are placed adjacent to each other.

Only two boxes are between W and R. Box S is placed just below W. P is not placed just above and below Q. Box Q is placed above R but not at top. Only one box is placed between R and V. Box T is placed at second position either from top or from bottom.

Solution:-

Box
U
Q
W
S
P
R
T
V

Question No. 6

Which of the following box is placed at top?

Options :

1. R

2. Q

3. U

4. P

5. None of these

Answer : U

Question No. 7

How many boxes are in between box T and box W?

Options :

1. One

2. Three

3. Four

4. Two

5. None of these

Answer : Three

Question No. 8

Which of the following box is placed just above box P?

Options :

1. S

2. Q

3. V

4. T

5. None of these

Answer : S

Question No. 9

Which of the following box is placed at bottom?

Options :

1. S

2. V

3. P

4. Q

5. None of these

Answer : V

Question No. 10

Which of the following is true regarding T?

Options :

1. T is placed immediately below U

2. R is just below T

3. T is at second position from bottom

4. T is placed above P

5. None of these

Answer : T is at second position from bottom

Direction:- To answer these question study carefully the following arrangement of letters, digits and symbols:

5 L % 2 T F 6 ^ D 4 * U 1 V # O E 8 P B $ 3 8 @ S J

Question No. 11

How many such symbols are there in the above arrangement each of which is immediately followed by a number and immediately preceded by a vowel?

Options :

1. None
2. One
3. Two
4. Three
5. Four

Answer : None

Question No. 12

If all the numbers are dropped from the above arrangement which of the following will be sixth to the left of eighth from the right end?

Options :

1. D
2. U
3. F
4. ^
5. None of these

Answer : ^

*5 L % 2 T F 6 ^ D 4 * U 1 V # O E 8 P B $ 3 8 @ S J*

*L % T F ^ D * U V # O E P B $ @ S J*

Question No. 13

If all the symbols are dropped from the given arrangement then which of the following will be sixth to the left of the eleventh from the right end?

Options :

1. T

2. 3

3. %

4. @

5. None of these

Answer : T

*5 L % 2 T F 6 ^ D 4 * U 1 V # O E 8 P B $ 3 8 @ S J*

*5 L 2 **T** F 6 D 4 U 1 V O E 8 P B 3 8 S J*

Sixth to the left of the eleventh from the right end = (11 + 6 = 17) = T

Question No. 14

How many vowels are there in the above arrangement each of which is immediately followed by a Number and immediately preceded by a symbol?

Options :

1. None

2. One

3. Three

4. Four

5. Two

Answer : One

*5 L % 2 T F 6 ^ D 4 * **U 1** V # O E 8 P B $ 3 8 @ S J*

Symbol Vowel Number

* * U 1*

Question No. 15

Four of the following Five are alike in a certain way and hence form a group. Which is the one that does not belong to that group?

Options :

1. L25

2. D*^

3. # E1

4. 3@$

5. EPO

Answer : # E1

L25 = L + 2 (place) = 2,   2 – 3 (place) = 5

D^ = D + 2 (place) = *,* – 3 (place) = ^*

#EV= # + 2 (place) = e,   P – 3 (place) = V

3@$ = 3 + 2 (place) = @, @ – 3 (place) = $

EPO = E + 2 (place) = P, P – 3 (place) = O

Direction:- Two statements are given in each of the following questions, followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two disregarding known facts.

Question No. 16

Statements:

Only few chocolates are toffees.
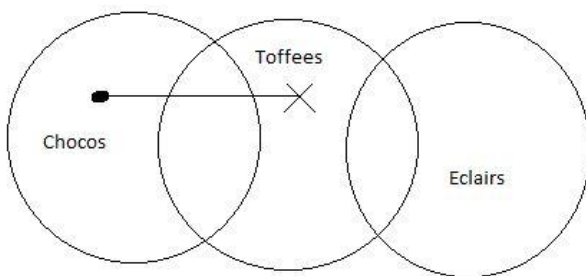
Maximum toffees are eclairs.

Conclusion:

1) All chocolates can be eclairs.

2) All toffees are eclairs.

Options :

1. Only conclusion 1 follows.

2. Only conclusion 2 follows.

3. Either conclusion 1 or conclusion 2 follows.

4. Neither conclusion 1 or 2 follows.

5. Both conclusion 1 and 2 follow.

Answer : Only conclusion 1 follows

Alternate Method-

Only few chocolates are toffees (I) + Maximum toffees are eclairs (A) (Some toffees are eclairs) = No conclusion→ Probable conclusion → All chocolates can be eclairs, hence conclusion I follows.

Maximum toffees are eclairs (Some toffees are eclairs) – So conclusion II doesn't follows.
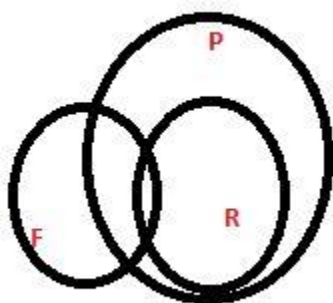
Question No. 17

Statements: Very few flowers are roses. All roses are pink.

Conclusion: 1) Some flowers are pink. 2) Few pink are roses.

Options :
1. Only conclusion 1 follow.

2. Only conclusion 2 follow.

3. Either conclusion 1 or conclusion 2 follow.

4. Neither conclusion 1 or 2 follow.

5. Both conclusion 1 and 2 follow.

Answer : Both conclusion 1 and 2 follow

As per conclusion 1, some flowers are roses which are pink so this statement follow. In conclusion2, as per rule, in all statement some follow.
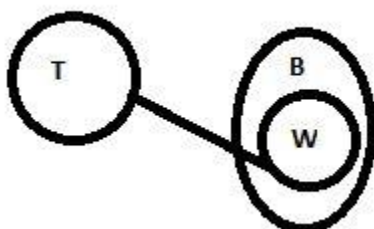
Question No. 18

Statements: All wheels are not tyre. All wheels are black.

Conclusion: 1) All tyres can be black. 2) Some black are tyres.

Options :

1. Only conclusion 1 follow.
2. Only conclusion 2 follow.
3. Either conclusion 1 or conclusion 2 follow.
4. Neither conclusion 1 or 2 follow.
5. Both conclusion 1 and 2 follow.

Answer : Only conclusion 1 follow

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Alternate Method-

All wheels are black (A) ⇒I.I ⇒Some black are wheels (I) + All wheels are not
tyre → Conversion → No wheels are tyre (E) = Some black are not tyres(O), So conclusion II
doesn't follows but ⇒Probable conclusion ⇒ All tyres can be black (A), hence conclusion I follows.

Conclusion 2, some black may or may not be tyres so this statement does not follow.

Question No. 19

Statements: Some mobiles are androids. All telephones are androids.

**Conclusion:** 1) Few telephones are mobiles. 2) All mobiles are telephones.

Options :

1. Only conclusion 1 follows.
2. Only conclusion 2 follows.
3. Either conclusion 1 or conclusion 2 follows.
4. Neither conclusion 1 nor 2 follows.
5. Both conclusions 1 and 2 follow.

Answer : Neither conclusion 1 nor 2 follows.

Direction:- Study the following information carefully and answer the questions given below:
T is father of W. W is the only son of E. E is daughter of N. E is mother of G. G is sister of Y.

Solution:-
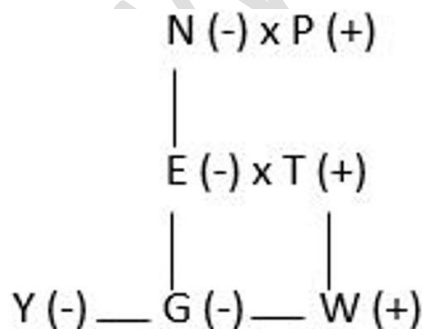
Question No. 20

If P is the husband of N, then how is P related to T?

Options :

1. Father
2. Grandfather
3. Daughter
4. Can't be determined
5. Father-in-law

Answer : Father-in-law

Question No. 21

How is Y related to W?

Options :

1. Brother
2. Sister
3. Cousin
4. Son
5. None of these

Answer : Sister

Direction:- In these questions, a relationship between different elements is shown is the statements. Find the true conclusion from the given two conclusions and then give your answer.

Question No. 22

Statements: $B > L \geq A \geq C < K; D > A \geq E \geq R > M$

Conclusions: I. $L > R$ II. $L = R$

Options :
1. If only conclusion I is true.
2. If only conclusion II is true.
3. If either conclusion I or conclusion II is true.
4. If neither conclusion I nor conclusion II is true.
5. If both conclusion I and II are true.

Answer : If both conclusion I and II are true

Given statements:

B > L ≥ A ≥ C < K   ...(i)

D > A ≥ E ≥ R > M   .... (ii)

Combining (i) and (ii), we get

L ≥ A ≥ E ≥ R

Thus, L ≥ R is true.

Hence either L = R or L > R is true.

Thus, either conclusion I or II is true.

Question No. 23

Statements: B > L ≥ A ≤ C < K; D > A ≥ E ≥ R > M

Conclusions: I. B > D   II. M < K

 Options :

1. If only conclusion I is true.
2. If only conclusion II is true.
3. If either conclusion I or conclusion II is true.
4. If neither conclusion I nor conclusion II is true.
5. If both conclusion I and II are true.

Answer : If only conclusion II is true
Given statements:
B > L ≥ A ≤ C < K   ...(i)
D > A ≥ E ≥ R > M   .... (ii)
Combining (i) and (ii), we get
B > L ≥ A < D
Thus, we can't compare B and D. Hence I (B > D) is not true.
Again, M < R ≤ E ≤ A ≤ C < K
Thus, M < K is true. Hence II is true.

Question No. 24

Statements: R ≤ A ≤ T ≥ H < O; N < M ≤ R ≥ I ≥ G

Conclusions: I. G ≥ T   II. O = N

Options :

1. If only conclusion I is true.
2. If only conclusion II is true.
3. If either conclusion I or conclusion II is true.
4. If neither conclusion I nor conclusion II is true.
5. If both conclusion I and II are true.

Answer : If neither conclusion I nor conclusion II is true

Given statements:

R ≤ A ≤ T ≥ H < O   ... (i)

N < M ≤ R ≥ I ≥ G   .... (ii)

Combining (i) and (ii), we get

G ≤ I ≤ R ≤ A ≤ T

Thus, G ≤ T is true.

But G ≥ T is not true.

Again, from (i) and (ii), we get

N < M ≤ R ≤ A ≤ T ≥ H < O

Thus, we can't compare N and O. Hence II (O = N) is not true.

Question No. 25

Statements: R ≤ A ≤ T ≥ H < O; N < M ≤ R ≥ I ≥ G

Conclusions: I. G ≤ T   II. O > N

Options :

1. If only conclusion I is true.
2. If only conclusion II is true.
3. If either conclusion I or conclusion II is true.
4. If neither conclusion I nor conclusion II is true.
5. If both conclusion I and II are true.

Answer : If only conclusion I is true.

Given statements:

R ≤ A ≤ T ≥ H < O   ... (i)

N < M ≤ R ≥ I ≥ G   ... (ii)

Combining (i) and (ii), we get

G ≤ I ≤ R ≤ A ≤ T

Thus, G ≤ T is true. Hence, I is true.

Again from (i) and (ii), we get

N < M ≤ R ≤ A ≤ T ≥ H < O. Thus, we can't compare O and N. Hence II is not true.

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Direction:- Study the following information carefully and answer the question given below:

Ten persons are sitting in two rows. Suhana, Chetna, Anita, Pranav and Ankit are sitting in the row facing north and Umesh, Akshay, Ranveer, Ashish and Umang are sitting in a row facing south but not necessarily in the same order. The following information is given about them.

(i)   Person facing Anita sits to the immediate left of Ranveer and is not sitting at an extreme end.

(ii) Ankit sits second to the left of Anita.

(iii) Pranav is not the neighbour of Ankit.

(iv) There is only one person sitting between Umang and Ranveer.

(v) Person facing Umesh sits at an extreme end.

(vi) Person Umang is facing person Chetna who sits to the immediate left of the person facing Akshay. Anita is not and immediate neighbour of Chetna.

Solution:-

From (i), as person facing Anita is not at the extreme end and also cannot be at sit at place no. 1 and 5 of row -2 which are at extreme ends.

From (ii) it is clear that Ankit and Anita will sit at place no.2 and 4 of row -2 respectively. Now, person facing Anita will sit at place no. 4 of row – 1 and Ranveer will sit at place no. 3 of row – 1.

From (iii), since, Pranav is not a neighbour of Ankit, only place left for Pranav is place no. 5 of row – 2.

Row -1: facing south

1	2	3, Ranveer	4	5
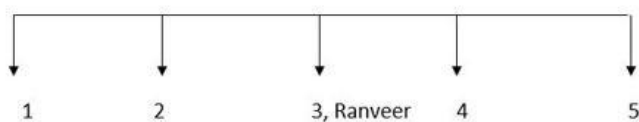
| 1	2, Ankit	3	4, Anita	5, Pranav

Row -2: facing north

From (vi), it is clear that Chetna will sit at place no. 1 of row – 2 and Umang will sit at place no. 1 of row – 1 and Akshay will sit at place no. 2 of row – 1. Now, only place left for Suhana is place no. 3 of row – 2.

From (v), we can say that Umesh is at place no. 5 of row – 1. Then only place left for Ashish is place no. 4 of row – 1.
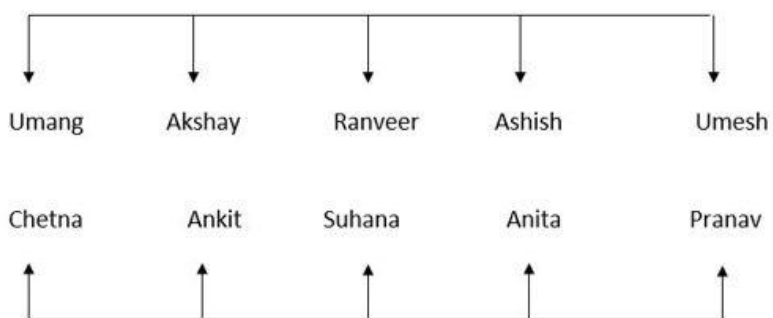
Row -1: facing south

1, Umang	2, Akshay	3, Ranveer	4, Ashish	5, Umesh

1, Chetna	2, Ankit	3, Suhana	4, Anita	5, Pranav
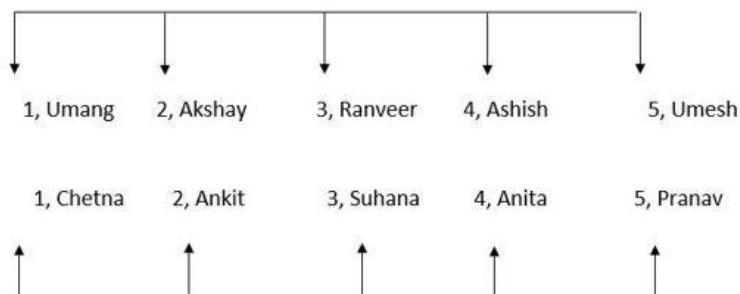
Row -2: facing north

Final arrangement shown below:

Row -1: facing south

Umang	Akshay	Ranveer	Ashish	Umesh

Chetna	Ankit	Suhana	Anita	Pranav

Row -2: facing north

Question No. 26

Which of the following statement is correct?

Options :

1. Umesh is facing Suhana.

2. Umang is immediate right of Ranveer.

3. Ashish is sitting at one of the extreme ends.

4. Chetna is facing Umang.

5. None of these

Answer : Chetna is facing Umang

Question No. 27

Who among the following is facing Akshay?

Options :

1. Pranav

2. Chetna

3. Anita

4. Ankit

5. None of these

Answer : Ankit

Question No. 28

Who is sitting at the extreme end of the line?

Options :

1. Suhana & Akshay

2. Umesh & Ranveer

3. Umang & Pranav

4. Ankit & Chetna

5. None of these

Answer : Umang & Pranav

Question No. 29

How many persons are sitting between Ankit & Pranav?

Options :

1. three

2. one

3. two

4. more than three

5. None

Answer : two

Question No. 30

What is the position of Umang with respect to Ashish?

Options :

1. Second to the left

2. Immediate right

3. Third to the right

4. Third to the left

5. None of these

Answer : Third to the right

Direction:- Study the following information carefully and answer the questions given below: Point M is 3 m to the east of point N and point L is 6 m to the west of point Q. Point Q is 10 m south of point P, which is 3 m to the east of Point O. Point M is 2 m to the north of Point L.

Question No. 31

What is the shortest distance between Point N and Point O?

Options :

1. 10 m

2. 4 m

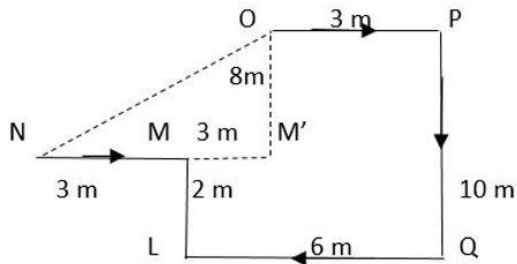3. 7 m

4. Can't be determined

5. None of these

Answer : 10 m

In Triangle, NM'O

O M'= PQ – LM = 10 m – 2 m = 8 m

NM' = NM + MM' = 3 m + 3m = 6 m

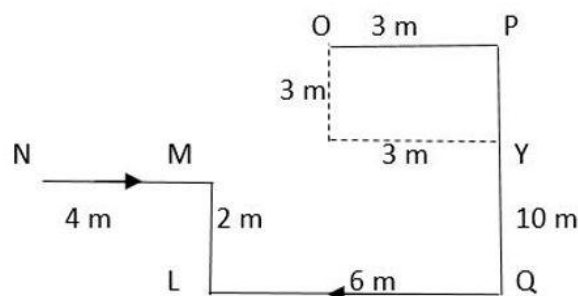$NO = \sqrt{OM'^2 + NM'^2} = \sqrt{8^2 + 6^2} = 10$ m

Question No. 32

A person starts from Point O and moves towards south, walks 3 m, turns to his left and walks further 3 m and stops at point Y. find his distance from Point Q?

Options :

1. 4 m

2. 3 m

3. 7 m

4. Can't be determined

5. None of these

Answer : 7 m

QY = PQ – PY = 10 m – 3m = 7m

Direction:- Read the following information carefully and answer the questions given below.

An uncertain number of people are sitting in a straight line and all are facing north direction. A sits eighth to the left of H. B sits fourth to right of G. C sits to the immediate left of D. F sits exactly in middle of G and H. Only ten people are sitting to the left of H. only six people are sitting between C and B. Number of people between G and H is same as that of H and D. D sits third from the extreme right end of the row. Number of people between E and H is same as that of H and A.

Solution:-

Step 1:

Only 10 people are sitting to the left of H.

A sits 8th to the left of H.

Number of people between A and H is same as that of E and H

  So,

Step 2:

D sits 3rd for extreme right end.

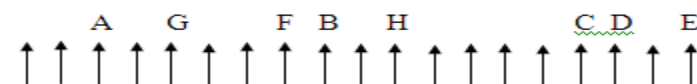Number of people between H and D is same as that of G and H.

C sits immediate left of D.

B sits fourth to the right of G.

F is exactly between G and H.

6 people are between B and C.

So final arrangement would be.

Question No. 33

How many persons are sitting between G and B?

Options :

1. One

2. Two

3. Three

4. Four

5. More than four

Answer : Three

Question No. 34

Who sits at the extreme right of the row?

Options :

1. D

2. E

3. H

4. B

5. None of these

Answer : E

Question No. 35

If it is possible to make to make only one meaningful word with the first, second, five and seventh letters of the word "NEPOTISM", which of the following will be third letter of the word? If no such word can be made, give 'X' as the answer and if more than one such words can be made give 'Z' as the answer.

Options :

1. N

2. S

3. T

4. X

5. Z

Answer : Z

NEST, SENT, NETS, TENS

Direction:- Simplify the following questions:

Question No. 36

35% of $\sqrt{1225} \div 0.01 = ?^2 \div 64$

Options :

1. 225

2. 220

3. 390

4. 280

5. 450

Answer : 280

$(35/100) \times 35 \times 100 = ?^2 \div 64$

$1225 \times 64 = ?^2$

$? = 280$

Question No. 37

?% of $(342.6 - 182.6) = (8)^2 + 16$

Options :

1. 30

2. 20

3. 50

4. 25

5. None of these

Answer : 50

$(?/100) \times 160 = 64 + 16$

$? = (80/160) \times 100$

$? = 50$

Question No. 38

15% of 340 + x% of 500 = 126

Options :

1. 17

2. 18

3. 14

4. 15

5. 6

Answer : 15

$51 + 5x = 126$

$5x = 75$

$x = 15$

Question No. 39

$(7.25 \times 5 \times 4) \div 5 - 4 = ?^2$

Options :

1. 4

2. 5

3. 7

4. 8

5. 6

Answer : 5

$(7.25 \times 5 \times 4)/5 - 4 = ?^2$

$145/5 - 4 = ?^2$

$?^2 = 29 - 4$

$?^2 = 25$

$? = 5$

Question No. 40

162 ÷ 13.5 x 5.5 + 36 x 2.5 = ?

Options :

1. 120

2. 156

3. 210

4. 280

5. 226

Answer : 156

$$12 \times 5.5 + 90 = ?$$

$$66 + 90 = ?$$

$$156 = ?$$

Question No. 41

Two trains are running on parallel lines in the same direction at the speed of 75 km/h and 39 km/h respectively. The faster train crosses a man in the slower train in 56 second. If the length of the slower train is 4/7th of the faster train, then find the length of the slower train.

Options :

1. 320 m

2. 322 m

3. 240 m

4. 185 m

5. None of these

Answer : 320 m

According to the question,

=> (75 – 39) × (5/18) = D/56

=> D = 560 m

Length of the faster train = 560 m

Length of the slower train = 560 × (4/7) = 320 m

Question No. 42

A trader wishes to gain 22% after allowing 20% discount on the marked price to his customers. What per cent higher than the cost price should he mark his goods?

Options :

1. 37.5%

2. 40%

3. 50%

4. 52.5%

5. None of these

Answer : 52.5%

Let the cost price be Rs. 100

SP = Rs. 122

Let the marked price be Rs. x

Discount = 20%

Now 80% of x = 122

80x/100 = 122

x = 152.5

Here (152.5 – 100) = 52.5% higher than the CP

Alternate Method:

CP : MP = (100 – Discount%) : (100 + Profit%)

CP : MP = (100 – 20) : (100 + 22) = 80 : 122 = 40:61

So required mark-up% = (61 – 40)*(100/40) = 52.5%

Question No. 43

In what time will Rs. 2000 amount to Rs. 2315.25 @ 10% compound interest payable half-yearly?

Options :

1. 2 years

2. 3 years

3. 3/2 years

4. 4 years

5. None of these

Answer : 3/2 years

Since interest is compounded half-yearly

So, rate is = 10/2 = 5% and time =2t = 2t years

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

$2315.25 = 2000 (1+ 5/100)^{2t}$

$9261/8000 = (21/20)^{2t}$

$(21/20)^3 = (21/20)]^{2t}$

t = 3/2 years,

The required time is 3/2 years.

Question No. 44

A, B and C can complete the whole work in 30 days. A starts the work and works for 'x' days while B and C complete the remaining 1/2 of the work in 24 days, then find the value of 'x'.

Options :

1. 25 days

2. 30 days

3. 53 days

4. 40 days

5. None of these

Answer : 40 days

Time required by B and C to complete the work = 2 × 24/1 = 48 days

Time taken by A, B and C = 30 days

Total units of work = 240 units

B and C one day work = 5 units

A, B and C one day work = 8 units

A's one day work = 8 – 5 = 3 units

Units of work done by A = 1 × 240/2 = 120 units

Required value of x = 120/3 = 40 days

Question No. 45

A scored 215 marks in an examination and B got 50 percent marks in the same examination which is 35 marks less than A. If the minimum passing marks in the examination are equivalent to 30 percent, then find the minimum passing marks in the examination?

Options :

1. 175
2. 99
3. 125
4. 108
5. 300

Answer : 108

A's score = 215

B got 50% marks in the examination which is 35 marks less than A.

=> 50% of the total marks = 215 – 35 = 180

=> Total marks = 180 x (100/50) = 360

Passing mark = (30/100) x 360 = 108

Direction:- In each of the following questions a number is missing. Find this missing number from the following alternatives.

Question No. 46

30 31 70 237 1012 ?

Options :

1. 4998

2. 5010

3. 5185

4. 4195

5. None of these

Answer : 5185

The series is :-

x 1 +1³, x 2 +2³, x 3 + 3³, x 4+4³, x 5+5³…..

Question No. 47

21 23 32 60 125 ?

Options :

1. 260

2. 251

3. 246

4. 235

5. None of these

Answer : 251

The series is :-

+ 1³+1, +2³+1, +3³+1, +4³+1, +5³+1

Question No. 48

6 11 32 127 634 ?

Options :

1. 3803

2. 3388

3. 3883

4. 3838

5. None of these

Answer : 3803
The series is :-
x 2-1, x 3-1, x 4-1, x 5 -1, x 6-1

Question No. 49

114 598 198 522 ? 462

Options :

1. 199

2. 333

3. 177

4. 266

5. None of these

Answer : 266
The series is :-
+ 22^2, - 20^2, + 18^2, - 16^2, + 14^2

Question No. 50

36 35 109 536 ? 33887

Options :

1. 3768

2. 3778

3. 3668

4. 3786

5. None of these

Answer : 3768

The series is :- x1-1^2, x3+2^2, x5-3^2, x7+4^2, x9-5^2

Direction:- Read the following information carefully and answer the questions:

In school 'P', total teachers are 400, out of this 65% are junior teachers and rest is senior teachers. In school 'Q' total number of teachers is half of the teacher of school 'P'. In school 'Q', 40% is junior teachers. Total teachers in school 'R' is 55 less than the number of junior teachers in school 'P'. In school 'R', senior teachers are equal to the senior teachers of school 'Q'. In school 'T', total senior teachers are 100, which 20% of total teachers.

Question No. 51

What is difference between the total number of junior teachers of school P and Q together and total number of senior teachers of school R and T together?

Options :

1. 140

2. 150

3. 120

4. 170

5. None of these

Answer : 120

Total teachers in school 'P' = 400

Junior teachers in school 'P' = 400 × (65/100) = 260

Senior teachers in school 'P' = 400 – 260 = 140

Total teachers in school 'Q' = 400/2 = 200

Junior teachers in school 'Q' = 200 × (40/100) = 80

Senior teachers in school 'Q' = 200 – 80 = 120

Total teachers in school 'R' = 260 – 55 = 205

Senior teachers in school 'R' = 120

Junior teachers in school 'R' = 205 – 120 = 85

Senior teachers in school 'T' = 100

Total teachers in school 'T' = 100 × (100/20) = 500

Junior teachers in school 'T' = 500 – 100 = 400

The total number of junior teachers of school P and Q together = 260 + 80 = 340

The total number of senior teachers of school R and T together = 120 + 100 = 220

Required difference = 340 – 220 = 120

Question No. 52

In school T, 60% of the junior teachers are female and 24% of the senior teachers are female.

Find the total number of female teachers in school T?

Options :

1. 540

2. 350

3. 390

4. 264

5. None of these

Answer : 264

Total teachers in school 'P' = 400

Junior teachers in school 'P' = 400 × (65/100) = 260

Senior teachers in school 'P' = 400 – 260 = 140

Total teachers in school 'Q' = 400/2 = 200

Junior teachers in school 'Q' = 200 × (40/100) = 80

Senior teachers in school 'Q' = 200 – 80 = 120

Total teachers in school 'R' = 260 – 55 = 205

Senior teachers in school 'R' = 120

Junior teachers in school 'R' = 205 – 120 = 85

Senior teachers in school 'T' = 100

Total teachers in school 'T'= 100 × (100/20) = 500

Junior teachers in school 'T' = 500 – 100 = 400

Number of female junior teachers = 400 × (60/100) = 240

Number of female senior teachers = 100 × (24/100) = 24

Total number of female teachers in school T = 240 + 24 = 264

Question No. 53

In school Q, out of the total junior teachers some are married and some are unmarried. The ratio of married and unmarried teachers is 3:5. Find the number of married teachers in school Q.

Options :

1. 30

2. 25

3. 40

4. 56

5. None of these

Answer : 30

Total teachers in school 'P' = 400

Junior teachers in school 'P' = 400 × (65/100) = 260

Senior teachers in school 'P' = 400 – 260 = 140

Total teachers in school 'Q' = 400/2 = 200

Junior teachers in school 'Q' = 200 × (40/100) = 80

Senior teachers in school 'Q' = 200 – 80 = 120

Total teachers in school 'R' = 260 – 55 = 205

Senior teachers in school 'R' = 120

Junior teachers in school 'R' = 205 – 120 = 85

Senior teachers in school 'T' = 100

Total teachers in school 'T'= 100 × (100/20) = 500

Junior teachers in school 'T' = 500 – 100 = 400

Number of married teachers in school Q = 80 × (3/8) = 30

Question No. 54

What is average number of senior teachers of all the schools together?

Options :

1. 100

2. 120

3. 140

4. 135

5. None of these

Answer : 120

Total teachers in school 'P' = 400

Junior teachers in school 'P' = 400 × (65/100) = 260

Senior teachers in school 'P' = 400 – 260 = 140

Total teachers in school 'Q' = 400/2 = 200

Junior teachers in school 'Q' = 200 × (40/100) = 80

Senior teachers in school 'Q' = 200 – 80 = 120

Total teachers in school 'R' = 260 – 55 = 205

Senior teachers in school 'R' = 120

Junior teachers in school 'R' = 205 – 120 = 85

Senior teachers in school 'T' = 100

Total teachers in school 'T'= 100 × (100/20) = 500

Junior teachers in school 'T' = 500 – 100 = 400

Average number of senior teachers of all the schools together = (140 + 120 + 120 + 100)/4 = 120

Question No. 55

Senior teachers of school P is how much more than the senior teachers of school R?

Options :

1. 18.5%

2. 20%

3. 14.25%

4. 16.66%

5. None of these

Answer : 16.66%

Total teachers in school 'P' = 400

Junior teachers in school 'P' = 400 × (65/100) = 260

Senior teachers in school 'P' = 400 – 260 = 140

Total teachers in school 'Q' = 400/2 = 200

Junior teachers in school 'Q' = 200 × (40/100) = 80

Senior teachers in school 'Q' = 200 – 80 = 120

Total teachers in school 'R' = 260 – 55 = 205

Senior teachers in school 'R' = 120

Junior teachers in school 'R' = 205 – 120 = 85

Senior teachers in school 'T' = 100

Total teachers in school 'T'= 100 × (100/20) = 500

Junior teachers in school 'T' = 500 – 100 = 400

Required % = [(140-120)/120] × 100 = 16.66%

Question No. 56

If a man rows at the rate of 21 kmph in still water and his rate against the current is 6 kmph, then the man's rate along the current is:

Options :

1. 23 kmph
2. 15 kmph
3. 27 kmph
4. 36 kmph
5. None of these

Answer : 15 kmph- Man's rate in still water = 21 kmph

rate of current = x kmph

man's rate against the current = 6 kmph

6 = (21 - x) * ½ kmph

x = 9 kmph

rate against the current **= (21+9)** * ½ kmph = 15 kmph

Question No. 57

The perimeter of a rectangle is 140 meters, and the difference between length and breadth is 20 meters. Find the area of the rectangle.

Options :

1. 1125 m²
2. 3200 m²
3. 1400 m²
4. 2800 m²
5. None of these

Answer : 1125 m²

Perimeter of rectangle = 2(L + B)

So, 2(L + B) = 140

So L+ B = 70 m ------(1)

& L - B = 20 m ------(2)

Adding both equations; So 2L = 90

So L = 45m & B = 25m

The area of rectangle = L x B = 45 x 25 = 1125 m^2

Alternate Method:

$(L + B)^2 - (L - B)^2 = 4LB$

So $70^2 - 20^2 = 4LB$

So $(70 + 20)(70 - 20) = 4LB$

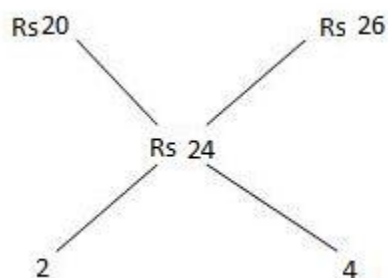So $LB = (90 \times 50)/4 = 1125 \text{ m}^2$

Question No. 58

A trader mixes two types of rice varieties with a cost of Rs.20 and Rs.26. If he sells the mixture of Rs.30 at 25% profit, in what ratio he mixes two types of rice varieties?

Options :

1. 1:2
2. 2:5
3. 3:2
4. 2:3
5. 2:1

Answer : 1:2

CP of mixture = (30/125) x 100 = Rs 24

required ratio = 1:2

Question No. 59

The average Physics marks of two sections A and B of class XI in the annual examination is 65.

The average marks of Section A is 70 and that of section B is 62. The ratio of the number of

students of section A and B is

Options :

1. 4:7
2. 6:5
3. 7:8
4. 8:9
5. 3:5

Answer : 3:5

Let the number of students in section A is x and B is y, then

$65 = (70 \times x + 62 \times y)/ (x + y)$

$\Rightarrow 65x + 65y = 70x + 62y$

$\Rightarrow 3y = 5x$

$\Rightarrow x/y = 3/5$

$\Rightarrow x: y = 3 : 5$

Question No. 60

The monthly salary of Kanchan and Kiran together is Rs.62620. The salary of Kanchan and Kiran

is increased by 20% and 10% respectively then the new salary of Kiran becomes 115% of the

new salary of Kanchan. What is the new salary of Kanchan?

Options :

1. Rs. 33330
2. Rs.35880
3. Rs.33470
4. Rs. 32568
5. None of these

Answer : Rs.33330

Let initial salary of Kanchan was X and (Kiran was 62620 – X).

Increased salary of Kanchan = X + 20% of X = 1.2X

Increased Salary of Kiran = 110% of (62620 - X)

Increased Salary of Kiran = (68882 - 1.1X)

New Salary of Kiran = 115% of 1.2X

68882 - 1.1X = 1.38X

=> 1.38X + 1.1X = 68882

=> 2.48X = 68882

=> X = 27775

Increased salary of Kanchan = 27775 + 20% of 27775 = Rs.33330.

Direction:- Simplify the following questions:

Question No. 61

$392 \div 28 \times 13 + 156 = (?)^3 + 122$

Options :

1. 6
2. 7
3. 5
4. 4
5. None of these

Answer : 6

$(?)^3 = 182 + 156 – 122$

$(?)^3 = 216$

? = 6

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Question No. 62

(4/5) of 310 ÷ 16 + 13.5 = √?

Options :

1. 784
2. 841
3. 1156
4. 1296
5. 2116

Answer : 841

√? = 15.5 + 13.5 = 29

? = 841

Question No. 63

$(147)^2 ÷ (21)^2$ x 64 ÷ 16 =?

Options :

1. 196

2. 486

3. 245

4. 384

5. 75

Answer : 196

21609 ÷ 441 x 64 ÷ 16 = ?

49 x 4 = ?

? = 196

Question No. 64

√0.49 + √6.25 + √1.44 + √1.21 = 125 का ?%

Options :

1. 4.4

2. 4

3. 3.6

4. 2

5. 5.

Answer : 4.4

0.7 + 2.5 + 1.2 + 1.1 = (?/100) × 125

5.5 = (?/100) × 125

? = (5.5 × 100)/125

? = 4.4

Question No. 65

$[(246)^2 \div 82 \times ?] \div 42 = 369$

Options :

1. 22

2. 21

3. 28.75

4. 11.25

5. 24

Answer : 21

[(60516/82) x ?] ÷ 42 = 369

? = (369 x 42 x 82)/60516

? = 21

Direction:- Study the graph carefully and answer the following questions given below:

Number of students (in thousands) graduated from the two universities IGNOU and HNBGU.
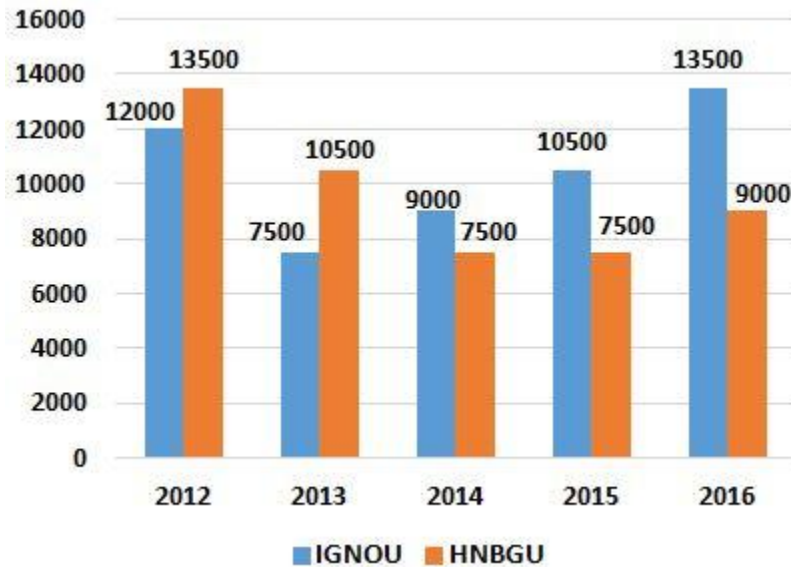
Question No. 66

In which year the difference between the total number of graduates in IGNOU and the total number of graduates in HNBGU is the highest?

Options :

1. 2012

2. 2016

3. 2012 and 2016

4. 2015

5. None of these

Answer : 2016

In 2012, difference between graduates from IGNOU and HNBGU = 13500 – 12000 = 1500

In 2013, difference between graduates from IGNOU and HNBGU = 10500 – 7500 = 3000

In 2014, difference between graduates from IGNOU and HNBGU = 9000 – 7500 = 1500

In 2015, difference between graduates from IGNOU and HNBGU = 10500 – 7500 = 3000

In 2016, difference between graduates from IGNOU and HNBGU = 13500 – 9000 = 4500

Question No. 67

What is average of the total number of graduates in the HNBGU?

Options :

1. 6000

2. 5000

3. 8000

4. 9600

5. None of these

Answer : 9600

Number of graduates in 2012 = 13500

Number of graduates in 2013 = 10500

Number of graduates in 2014 = 7500

Number of graduates in 2015 = 7500

Number of graduates in 2016 = 9000

Required average = (13500 + 10500 + 7500 + 7500 + 9000)/5 = 48000/5 = 9600

Question No. 68

Number of graduates from HNBGU in 2013, 2014 together is approximately what percent is what percent of the total number of graduates from INGOU in all years together?

Options :

1. 34%

2. 24%

3. 44%

4. 14%

5. None of these

Answer : 34%

Number of graduates from HNBGU in 2013 = 10500

Number of graduates from HNBGU in 2014 = 7500

Total number of graduates = 10500 + 7500 = 18000

Total number of graduates from IGNOU in all years = 12000 + 7500 + 9000 + 10500 + 13500 = 52500

Required percent = (18000/52500) x 100 = 34% approx

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Question No. 69

What is the ratio between the graduates from HNBGU in 2014, 2015 and 2016 together to the number of graduates from INGOU in 2012, 2013 and 2014 together?

Options :

1. 11:16

2. 15:14

3. 14:15

4. 16:19

5. None of these

Answer : 16:19

Total Number of graduates from HNBGU in 2014, 2015 and 2016 = 7500 + 7500 + 9000 = 24000

Total number of graduates from IGNOU in 2012, 2013 and 2014 = 12000 + 7500 + 9000 = 28500

Required ratio = 24000:28500 = 16:19

Question No. 70

Number of graduates from IGNOU in 2012 and 2013 is approximately how much more or less than the number of graduates from HNBGU in 2015 and 2016 together?

Options :

1. 17%

2. 18%

3. 19%

4. 15%

Answer : 18%

Number of graduates from IGNOU in 2012 and 2013 = 12,000 + 7500 = 19,500

Number of graduates for HNBGU in 2015 and 2016 = 7500 + 9000 = 16500

Required % = [(19500 – 16500)/16500] x 100 = 18% approx

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Direction:- In each of the questions given below, four words are given in bold. These four words may or may not be in their correct position. The sentence is then followed by options with the correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct. Find the correct combination of words that replace each other. If the sentence is correct as it is, select 'E' as your option.

Question No. 71

The fake **narrative (A)** media messaging is **ascendency (B)** at gaining moral **aimed** (C) over India by trying to create a fake **social (D)**.

Options :

1. Only A-D
2. Both B-C and A-D
3. Only B-D
4. Both A-B and C-D
5. The sentence is correct

Answer: 2, Both B-C and A-D

The statement is not correct in its present form and it is clear from first bold word. Therefore, option E can be ruled out easily.

Now, coming to the given options, if we carry out the interchanging of the pair A-D, this will imply something but the statement will not completely make sense with this. But we are certain that our choice should contain the pair A-D. We have to find out another option with this pair and that option is B. And if we also interchange B-C, we shall find the correct sentence, along with interchanging A-D.

So, there is no requirement to check the remaining options.

This makes the correct statement as:

The fake social media messaging is aimed at gaining moral ascendency over India by trying to create a fake narrative.

This makes option B the correct choice among the given options.

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Question No. 72

The **monitor (A)** in the cyber world has been so **comprising (B)** that New Delhi has tasked a team **severe (C)** security agencies and the military to **assault (D)** the cyber world for such messages and counter them.

Options :

1. Only A-D

2. Both A-B and C-D

3. Only B-D

4. Both A-D and B-C

5. The sentence is correct

Answer: 4, Both A-D and B-C

The statement is not correct in its present form and it is clear from first bold word. Therefore, option E can be ruled out easily.

Now, coming to the given options, if we carry out the interchanging of the pair A-D, this will imply something but the statement will not completely make sense with this. But we are certain that our choice should contain the pair A-D. We have to find out another option with this pair and that option is D. And if we also interchange B-C, we shall find the correct sentence, along with interchanging A-D.

So, there is no requirement to check the remaining options.

This makes the correct statement as:

The assault in the cyber world has been so severe that New Delhi has tasked a team comprising security agencies and the military to monitor the cyber world for such messages and counter them.

This makes option D the correct choice among the given options.

Question No. 73

The **livelihood** (A) is falling into a deep **sword** (B) of recession. The **abyss** (C) is hanging on the **economy** (D) of lakhs of Indians.

Options :

1. Only A-D

2. Both B-C and A-D

3. Only B-D

4. Both A-B and C-D

5. The sentence is correct

Answer: 2, Both B-C and A-D

The statement is not correct in its present form and it is clear from first bold word. Therefore, option E can be ruled out easily.

Now, coming to the given options, if we carry out the interchanging of the pair A-D, this will imply something but the statement will not completely make sense with this. But we are certain that our choice should contain the pair A-D. We have to find out another option with this pair and that option is B. And if we also interchange B-C, we shall find the correct sentence, along with interchanging A-D.

So, there is no requirement to check the remaining options.

This makes the correct statement as:

The economy is falling into a deep abyss of recession. The sword is hanging on the livelihood of lakhs of Indians.

This makes option B the correct choice among the given options.

Question No. 74

The objective of the **sectors** (A) was to get a sense of ground reality **slowdown** (B) the current economic **amid** (C) , across various industrial **meeting** (D) of the economy.

Options :

1. Only A-D

2. Both A-B and C-D

3. Only B-D

4. Both A-D and B-C

5. The sentence is correct

Answer: 4, Both A-D and B-C

The statement is not correct in its present form and it is clear from first bold word. Therefore, option E can be ruled out easily.

Now, coming to the given options, if we carry out the interchanging of the pair A-D, this will imply something but the statement will not completely make sense with this. But we are certain that our choice should contain the pair A-D. We have to find out another option with this pair and that option is D. And if we also interchange B-C, we shall find the correct sentence, along with interchanging A-D.

So, there is no requirement to check the remaining options.

This makes the correct statement as:

The objective of the meeting was to get a sense of ground reality, amid the current economic slowdown, across various industrial sectors of the economy.

This makes option D the correct choice among the given options.

Question No. 75

The Minister said the **decision (A)** would be **satisfaction (B)** in ensuring smooth and hassle-free **procurement (C)** to the **instrumental (D)** of the farmers.

Options:

1. Only A-C

2. Only B-D

3. Only C-D

4. A-B and C-D

5. No exchange required

Answer : Answer: 2, Only B-D

Explanation:

B is grammatically incorrect at its place. It should be exchanged. D is also incorrect at its place. So, exchanging B-D would make the sentence correct.

The Minister said the **decision** would be **instrumental** in ensuring smooth and hassle-free **procurement** to the **satisfaction** of the farmers.

Direction:-: **Read each sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence. If there is no error, mark the answer 5.**

Question No. 76

The concept of ugly 1)/ and beautiful 2)/ are interchangeable 3) /and relative 4) /None of these 5)

Options :

1. The concept of ugly

2. and beautiful

3. are interchangeable

4. and relative

5. None of these

Answer: 3, are interchangeable, 'is' instead of 'are'

Question No. 77

Before of the Prime Minister's first meeting 1) / with the US President, concern 2) / had grown about the future course 3) / of the bilateral relationship. 4) / None of these 5)

Options :

1. Before of the Prime Minister's first meeting

2. with the US President, concern

3. had grown about the future course

4. of the bilateral relationship.

5. None of these

Answer: 1, Before of the Prime Minister's first meeting; 'ahead' instead of 'before'. 'Ahead of' means 'before'. Either use 'before' or 'ahead of'

Question No. 78

Water governance was articulated 1)/as an art and inherited 2) / by generation and generation 3)/ as an integral part of life 4) /None of these 5)

Options :

1. Water governance was articulated

2. as an art and inherited

3. by generation and generation

4. as an integral part of life

5. None of these

Answer: 3, by generation and generation

'After' instead of 'and'

Question No. 79

According to Indian philosophy, 1) / the body is 2) / like a piece of clothing only to be changed with time, 3) / but the soul remain the same 4) / None of these 5)

Options :

1. According to Indian philosophy,

2. the body is

3. like a piece of clothing only to be changed with time,

4. but the soul remain the same.

5. None of these

Answer: 4, but the soul remain the same.

'remains' instead of 'remain'

Question No. 80

Though the scheme is proposed to be expanded 1) / during the Twelfth Five Year Plan, 2)/ the regional geriatric centers are yet to taken off 3) /because of lack of space in the identified institutions 4) / None of these 5)

Options :

1. Though the scheme is proposed to be expanded

2. during the Twelfth Five Year Plan,

3. the regional geriatric centers are yet to taken off

4. because of lack of space in the identified institutions

5. None of these.

Answer: 3, the regional geriatric centers are yet to taken off

'Take' instead of 'taken'

Direction:- In questions given below, a part of the sentence is given in bold and underlined. Below are given alternatives to the bold and underlined part which may improve the sentence. Choose the correct alternative. In case no improvement is needed, option 5 is the answer.

Question No. 81

Opportunity for employment is being created increasingly **by our developing plan are** implemented.

Options :

1. by their developing plans

2. as our development plans are

3. by our development plans

4. through our developing plans

5. No improvement required

Answer: 2, as our development plans are

Opportunity for employment is being created increasingly as our development plans are implemented.

Question No. 82

The **complete of education marking** a turning point in the life of every individual.

Options :

1. completion in education marked

2. complete education of marks

3. completion of education marks

4. complete in education marks

5. No improvement required

Answer: 3, completion of education marks

The completion of education marks a turning point in the life of every individual.

Question No. 83

He was **stunned for seeing** me waiting for him and told me that I looked very angry.

Options :

1. stun to see

2. stunned by see

3. stun to seeing

4. stunned to see

5. No improvement required

Answer: 4, stunned to see

Since WAS is used, past tense will be used. Hence STUNNED will be used. STUNNED TO SEE or

STUNNED BY SEEING is the correct usage.

He was stunned to see me waiting for him and told me that I looked very angry.

Question No. 84

He believed that an efficiency and integrity of the administration was important to get policies and

programmes implemented in the right spirit.

Options :

1. His belief that an

2. He beliefs that an

3. He beliefs that the

4. He believed that the

5. No improvement required

Answer: 4, He believed that the

He believed that the efficiency and integrity of the administration was important to get policies and

programmes implemented in the right spirit.

Question No. 85

As metro and tier-1 cities are expanding, **there are immense growth in the outskirts** of these cities.

Options :

1. there was immense growth in the outskirts

2. there is immense growth in the outskirts

3. there were immense growth in the outskirts

4. there had been immense growth in the outskirts

5. No correction required

Answer: 2, there is immense growth in the outskirts

there is immense growth in the outskirts

The sentence is in present tense so option 1 and 3 are ruled out.

Even option 4 is ruled out as it is in past perfect tense.

So option 2 is the correct choice as it is in present tense and the verb is in agreement with the subject. "Are" to be replaced with "is"

Direction:- In the given passage, there are blanks, each of which has been numbered. Against each five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

The steep penalties for violation of road rules that came into force on September 1 under the Motor Vehicles (Amendment) Act, 2019 have produced a (86)_____, with several State governments opting to reduce the (87)_____ of fines, or even to reject the new provisions. Gujarat has announced a (88)_____ reduction in the fines, West Bengal has refused to adopt the higher penalties, Karnataka and Kerala are studying the prospects to make the provisions less (89)_____, and others are proceeding with caution. Motorists have reacted with outrage at the (90)_____ of fines by the police, obviously upset at State governments pursuing enforcement without upgrading road infrastructure and making administrative arrangements for issue of transport documents.Union Transport Minister Nitin Gadkari has (91) _____that it is left to the States to choose the quantum of fines, since it is their responsibility to bring about (92)_____ and protect the lives of citizens. Mr. Gadkari's argument is valid, and the intent behind amending the Motor Vehicles Act cannot be faulted.

Question No. 86

Choose the most appropriate answer.

Options :

1. whiplash

2. goulash

3. calash

4. backlash

5. backsplash

Answer : 4, backlash

Whiplash: The lash of a whip/ An injury to the cervical spine caused by an abrupt jerking motion of the head, either backward or forward.

Goulash: A mixture of many different elements;

Calash: **a.** A light carriage with two or four low wheels and a collapsible top.

Backlash:A sudden or violent backward whipping motion/An antagonistic reaction to a trend, development

Backsplash: An upright surface or border, as of tile, that protects the wall behind a sink or stove.

Words such as "shock" and "jolt" are used for an unexpected negative. Happiness and Perplexed don't fit in grammatically.

Question No. 87

Choose the most appropriate answer.

Options :

1. Quantum

2. Magnanimous

3. Petite

4. penalty

5. periphery

Answer: 1, Quantum

Quantum: huge/ substantial

Magnanimous: generous/ worthy

Petite: small

Penalty: disadvantage/forfeit

Periphery: margin/ border

Question No. 88

Choose the most appropriate answer.

Options :

1. arterial

2. Negligence

3. Substantial

4. exponential

5. encroachment

Answer: 2, Substantial

Arterial: major/ through

Negligence: neglect/ disregard

Substantial: significant/ generous

Exponential: becoming more and more rapid.

Encroachment: violation

Question No. 89

Choose the most appropriate answer.

Options :

1. stringent

2. shunted

3. defunct

4. scrap

5. allied

Answer: 1, stringent

Stringent: severe/ strict

Shunted: pushed/ shifted

Defunct: obsolete/ invalid

Scrapped: discard or remove from service

Allied: associated

Question No. 90

Choose the most appropriate answer.

Options :

1. nullify

2. vulnerable

3. articulate

4. woes

5. imposition

Answer: 5, imposition

Nullify: invalidate

Vulnerable: helpless/ exposed

Articulate: eloquent/ clear

Woes: griefs

Imposition: burden/ hassle

Question No. 91

Choose the most appropriate answer.

Options :

1. recede

2. susceptible

3. reiterated

4. baffled

5. lamented

Answer: 3, reiterated

Recede: withdraw

Susceptible: vulnerable/ prone

Reiterated: restated

Baffled: puzzled

Lamented: mourned

Question No. 92

Choose the most appropriate answer.

Options :

1. vanity

2. elevation

3. simulation

4. deterrence

5. retreat

Answer: 4, deterrence

Vanity: pride

Elevation: raise

Simulation: imitation

Deterrence: restriction

Retreat: withdrawal

Direction:- Read the passage and answer the following questions.

Scullin's recent study, published in Psychological Science, investigated the relationship between music listening and sleep, focusing on a rarely-explored mechanism: involuntary musical imagery, or "earworms," when a song or tune replays over and over in a person's mind. These commonly happen while awake, but Scullin found that they also can happen while trying to sleep. People who experience earworms regularly at night -- one or more times per week -- are six times as likely to have poor sleep quality compared to people who rarely experience earworms. Surprisingly, the study found that some instrumental music is more likely to lead to earworms and **disrupt** sleep quality than lyrical music.

In the experimental study, 50 participants were brought into Scullin's Sleep Neuroscience and Cognition Laboratory at Baylor, where the research team attempted to **induce** earworms to determine how it affected sleep quality. Polysomnography -- a comprehensive test and the gold standard measurement for sleep -- was used to record the participants' brain waves, heart rate, breathing and more while they slept.

A way to get rid of an earworm is to engage in cognitive activity -- fully focusing on a task, problem or activity helps to distract your brain from earworms. Near bedtime, rather than engaging in a demanding activity or something that would disrupt your sleep, like watching TV or playing video games, Scullin suggests spending five to 10 minutes writing out a to-do list and putting thoughts to paper.

Question No. 93

What was the purpose of Scullin's study?

Options :

1. to find out the relationship between music listening and sleep.

2. to investigate how earworms are related to music listening.

3. to study how sleep is disturbed by involuntary musical imagery.

4. to study how earworms could be avoided during daytime.

5. None of these

Answer: 1, to find out the relationship between music listening and sleep.

In the passage, it is clearly mentioned that Scullin investigated the relationship between music

listening and sleep.

Question No. 94

How did the team conduct the study in Sleep Neuroscience and Cognition Laboratory at Baylor?

Options :

1. they compared the pattern of sleep of various people.

2. they analysed sleeping pattern of 50 participants during day and night.

3. they tried to induce earworms to determine how it affected sleep quality.

4. they analysed brain waves by injecting a medicine.

5. All of these

Answer: 3, they tried to induce earworms to determine how it affected sleep quality.

In the passage, it is mentioned that the research team attempted to induce earworms into 50 participants to determine how it affected sleep quality.

Question No. 95

What is polysomnography?

Options :

1. a standard for measuring gold.

2. the gold standard measurement and comprehensive test for sleep.

3. a comprehensive test to measure brain wave.

4. the gold standard measurement for heart rate, breathing, etc.

5. Both C and D

Answer: 2, the gold standard measurement and comprehensive test for sleep.

In the passage, it is given that "Polysomnography -- a comprehensive test and the gold standard measurement for sleep…".

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Question No. 96

What is suggested by Scullin to get rid of earworms?

Options :

1. engaging in a demanding activity

2. watching TV or playing video games instead of listening to music.

3. fully focusing on a task that distracts our brain from earworms

4. not preparing a to-do list and worrying about the next day.

5. All of these

Answer: 3, fully focusing on a task that distracts our brain from earworms

In the passage, it is said that "A way to get rid of an earworm is to engage in cognitive activity --

fully focusing on a task, problem or activity helps to distract your brain from earworms."

Question No. 97

Pick out the correct option regarding the sentences given below.

I. People who have experienced earworms at least once at night are six times as likely to have poor sleep quality compared to people who have never experienced earworms.

II. Earworms are common while sleeping, but the scientist found that they can also occur during day time.

Options :

1. Only I is true

2. Only II is true

3. Both I and II are true

4. Either I is true or II is true

5. Both I and II are false

Answer: 5, Both I and II are false

I- This is wrong because, the paragraph says that people who experience earworms regularly are six times as likely to have poor sleep quality compared to people who rarely experience earworms.

II- This is wrong because, Scullin found that earworms are common while awake, but they can also occur during day time.

Question No. 98

Pick out the correct option regarding the sentences given below.

I. The study found that some instrumental music rather than lyrical music is more likely to lead to earworms and disrupt sleep quality.

II. Engaging in cognitive activity is one way to get rid of an earworm.

Options :

1. Only I is true

2. Only II is true

3. Both I and II are true

4. Either I is true or II is true

5. Both I and II are false

Answer: 3, Both I and II are true

I-   In the passage, it is given that "Surprisingly, the study found that some instrumental music is more likely to lead to earworms and disrupt sleep quality than lyrical music." So, this is true.

II-   This is also true. It is said that "A way to get rid of an earworm is to engage in cognitive activity -- fully focusing on a task, problem or activity helps to distract your brain from earworms."

Question No. 99

Which of the following words mean the same as the word 'disrupt'?

Options :
1. implement
2. imply
3. impede
4. immense
5. impose

Answer: 3, impede

The word 'disrupt' means 'to prevent something, especially a system, process, or event, from continuing as usual or as expected'.

A- to start using a plan or system.

B- to communicate an idea or feeling without saying it directly.

C- to make it more difficult for something to happen or more difficult for someone to do something.

D- extremely large in size or degree.

E- to establish something as a rule to be obeyed, or to force the acceptance of something.

Question No. 100

Which of the following words mean the opposite as the word 'induce'?

Options :

1. persuade
2. precarious
3. dissolution
4. dissociation
5. dissuade

Answer: 5, dissuade

The word 'induce' means 'to persuade someone to do something'.

A- to make someone do or believe something by giving them a good reason to do it or by talking to that person and making them believe it.

B- in a dangerous state because of not being safe or not being held in place firmly.

C- the act or process of ending an official organization or legal agreement.

D- the fact of being separate from and not related to something else.

E- to persuade someone not to do something.