



Ssc Cgl Tier I Previous Year Question Paper Overview

Here, you can solve all the questions asked in Ssc Cgl Tier I Previous Year Question Paper on 2022-12-02 in the Morning exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Ssc Cgl Tier I exam. There are 100 questions in the exam and 60 minutes are provided for the Ssc Cgl Tier I exam. The Cutoff of the exam was 140 marks hence you should try to score at least 150 marks.

Ssc Cgl Tier I Previous Year Question Paper : Questions and Solutions

Question 1 :

The Commonwealth Games 2018 were held at which of the following places?

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. Gold coast
2. Edinburgh
3. Victoria
4. Kuala Lumpur

Solution :

The correct answer is **option 1** i.e. **Gold coast**.

The 2018 Commonwealth Games, officially known as the **XXI Commonwealth Games**, were held at Gold Coast, Queensland, Australia between 4 & 15 April 2018.

The official **motto of the 2018 Commonwealth Games** held at Gold Coast is **Share the Dream**. It was chosen to highlight the dreams and experience at the games that were shared by the participants of the games.

Medal ranking

- **Australia came in first in the medal table rank with 78 gold,**
- The second being England with 45 gold,
- The third being India with 26 gold. Two bronze medals were awarded in boxing.

**Additional information-**

1. The 2022 Commonwealth Games were held in **Birmingham, England**. They are the third Commonwealth Games to be hosted in England following London 1934 and Manchester 2002.
2. Team Australia won the most medals in the **Commonwealth Games 2022 Medal Tally with 67 Gold medals**.
3. India is standing at the 4th position in **Commonwealth Games 2022 Medal Tally with 22 Gold medals**.
4. **Motto-Games for Everyone**

Question 2 :

What is the single percentage discount equivalent to two successive discounts of 15% and 5%?

Difficulty : Moderate**Average Time : 86 Seconds****Options :**

1. 19.00%
2. 19.25%
3. 18.00%
4. 18.25%

Solution :

The correct answer is **option 2** i.e. **19.25%**.

Formula used:

Equivalent discount of two successive discount = $a + b - \frac{ab}{100}$ ---- (1)

Calculations:

Using equation (1), we get

$$\text{Equivalent discount} = 15 + 5 - \frac{(15 \times 5)}{100}$$

$$20 - 0.75 = 19.25\%$$

Question 3 :

Simplify $x + 3(y + x - 2) - (x + y)$.

Difficulty : Moderate**Average Time : 41 Seconds****Options :**



$$x + 2y - 6$$

2. $2x + y - 6$

3. $2x + 3y - 6$

4. $3x + 2y - 6$

Solution :

The correct answer is **option 4** i.e. $3x + 2y - 6$

Calculations:

$$x + 3(y + x - 2) - (x + y)$$

$$x + 3y + 3x - 6 - x - y$$

$$3y + 2y - 6$$

Question 4 :

A thief is noticed by a policeman from a distance of 97 m. The thief starts running and the policeman chases him. The thief and the policeman run at a speed of 21 m/sec and 23 m/sec respectively. What is the time taken by the policeman to catch the thief?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 40 sec

2. 45 sec

3. 62.5 sec

4. 48.5 sec

Solution :

The correct answer is **option 4** i.e. **48.5 sec.**

Given:

Distance = 97 m

Speed of thief = 21 m/sec

Speed of policeman = 23 m/sec

Concept used:

Relative speed = $a - b$, when two objects are moving in the same direction

Calculations:

According to the question;

Relative speed = $23 - 21 = 2$ m/sec

Time = Distance/speed = $97/2 = 48.5$ sec

Question 5 :

Select the INCORRECTLY spelt word.

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Texture
2. Slege
3. Savoury
4. Tamper

Solution :

The correct answer is **option 2** i.e. **Slege**.

The correct spelling and meaning of the given words are:

- **Texture:** Texture refers to the physical characteristics of a surface or material, such as its roughness, smoothness, softness, or hardness.
- **Sledge:** A sledge is a large, heavy vehicle used for transporting goods over snow or ice. It typically has a flat bottom and runners instead of wheels, allowing it to slide easily over the snow.
- **Savoury:** Savoury refers to food that has a salty or spicy flavor and is not sweet. It can also describe a pleasant or enjoyable taste, aroma, or experience.
- **Temper:** Temper can have several meanings depending on the context. It can refer to a person's state of mind or emotional disposition, such as being angry or calm.

Question 6 :

Select the appropriate adverb for the underlined word in the sentence. He led me to the room that had obvious been built later than the rest of the house.



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Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. obviously
2. obliviousness
3. obviousness
4. obviously

Solution :

The correct answer is **option 4** i.e. **obviously**.

The word "obviously" is an adverb that means in a clear, noticeable, or evident manner. In the context of the sentence, it indicates that the speaker easily noticed that the room was built later than the rest of the house.

- "Obliviously" is an adverb that means in a manner that shows a lack of awareness or attention, which does not fit the context of the sentence.
- "Obliviousness" is a noun that refers to the state of being unaware or ignorant, which cannot be used to modify a verb.
- "Obviousness" is a noun that refers to the state of being clear or easily noticed, which is not the correct form of the word to use as an adverb.

Thus, the correct sentence is:

*He led me to the room that had **obviously** been built later than the rest of the house.*

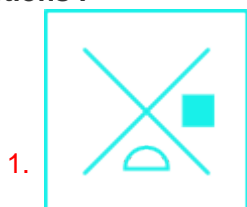
Question 7 :

Select the figure from the given options that can replace the question mark(?) in the following series.

Difficulty : Moderate

Average Time : 77 Seconds

Options :



2.

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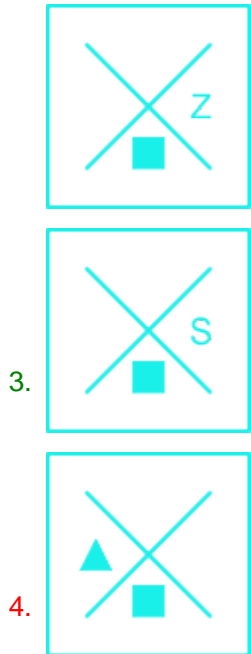
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Solution :



The correct answer is **Option 3** i.e.



Logic: Elements move one step forward clockwise and a new element is used at the previous place.

Figures 1 and 2: Z moves one step ahead clockwise and a circle is used in Figure 2.

Figures 3 and 4: Star sign moves one step ahead clockwise and an equal sign is also used with it in Figure 4.

Similarly,

Figures 5 and 6: Shaded square moves one step ahead clockwise and a new element that is S in option is used in Figure 2.

Hence, the correct answer is **option 3**.

Question 8 :

A sum of Rs.6,000 is to be paid back in two equal annual instalments; each instalment is to be paid at the end of every

year. How much is each instalment if the interest is compounded annually at 2% p.a.? (Rounded off up to two decimal places)

Difficulty : Moderate

Average Time : 92 Seconds

Options :

1. Rs.2,092.29
2. Rs.3,090.30
3. Rs.2,291.29
4. Rs.3,589.30

Solution :

The correct answer is **option 2** i.e. **Rs.3,090.30**.

Given:

Rate = 2%

Sum = Rs 6000

Calculations:

Let each installment be x

Principal amount for 1st installment = $x/(102/100) = x/(51/50)$

Principal amount for 2nd installment = $x/(102/100)^2 = x/(51/50)^2$

1st installment + 2nd installment = 6000

$(x/(51/50)) + (x/(51/50)^2) = 6000$

Hence, the value of each installment, $x = 3090.30$

Question 9 :

Which letter cluster will replace the question mark (?) to complete the given series? abCD, fgHI, ?, stUV, abCD

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. kIMO
2. lmNO



mnOP

4. InMO

Solution :

The correct answer is **option 2** i.e. **ImNO**.

Given series: abCD, fgHI, ?, stUV, abCD

The series follows this pattern:

abCD, fgHI

$a + 5 = f$

$b + 5 = g$

$C + 5 = H$

$D + 5 = I$

fgHI, ?

$f + 6 = I$

$g + 6 = m$

$H + 6 = N$

$I + 6 = O$

ImNO, stUV

$I + 7 = s$

$m + 7 = t$

$N + 7 = U$

$O + 7 = V$

stUV, abCD

$s + 8 = a$

$t + 8 = b$

$U + 8 = C$

$V + 8 = D$





So, the missing term in the series is **ImNO**.

Question 10 :

Which of the following numbers will replace the question mark (?) in the given series? 2, 4, 10, 28, ?, 244

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. 94
2. 90
3. 88
4. 82

Solution :

The correct answer is **option 4** i.e. **82**.

Given series: 2, 4, 10, 28, ?, 244

The series follows this pattern:

$$2 + 2 = 4$$

$$4 + (2 \times 3) = 4 + 6 = 10$$

$$10 + (6 \times 3) = 10 + 18 = 28$$

$$28 + (18 \times 3) = 28 + 54 = 82$$

$$82 + (54 \times 3) = 82 + 162 = 244$$

So, the missing term in the series is **82**.

Question 11 :

The motion of _____ body is an example of uniformly accelerated motion.

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. resting
2. Decelerating
3. parabolic

freely falling

Solution :

The correct answer is **option 4** i.e. **freely falling**

The motion of a freely falling body moves under the acceleration due to gravity and therefore, its acceleration is constant. So, it is a **uniformly accelerated motion**. Therefore, acceleration produced in a freely falling body does not depend on the mass of the body.

Gravity of the Earth attracts every object towards its centre. When an object is released from a height, it falls towards the surface of the Earth under the influence of gravitational force. The motion of the object is said to have free fall.

- **Acceleration due to gravity**-When an object falls towards the ground from a height, then its velocity changes during the fall. This changing velocity produces acceleration in the object. This acceleration is known as acceleration due to gravity (g). Its value is given by 9.8 m/s^2 .

There are two important motion characteristics that are true of free-falling objects:

- Free-falling objects do not encounter air resistance.
- All free-falling objects (on Earth) accelerate downwards at a rate of 9.8 m/s/s (often approximated as 10 m/s/s for *back-of-the-envelope* calculations)

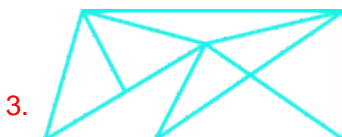
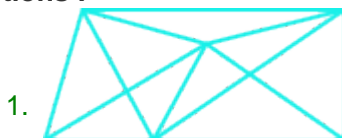
Question 13 :

Select the option figure in which the given figure (X) is embedded as its part (rotation is not allowed). (X)

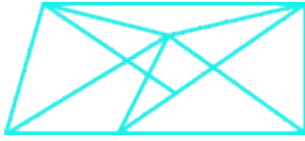
Difficulty : Moderate

Average Time : 88 Seconds

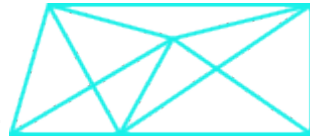
Options :



4.



Solution :



The correct answer is **option 1** i.e.

The given figure is embedded in option 1, as shown below:



Question 14 :

Select the set in which the numbers are related in the same way as the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 are not allowed) (4, 13, 5) (3, 12, 6)

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. (4, 10, 3)
2. (7, 16, 3)
3. (5, 17, 6)
4. (5, 17, 7)

Solution :

The correct answer is **option 4** i.e. (5, 17, 7).

The logic used here is:

(4, 13, 5)

$4 \times 2 = 8$

$13 - 5 = 8$

(3, 12, 6)

$$3 \times 2 = 6$$

$$12 - 6 = 6$$

Similarly,

$$(5, 17, 7)$$

$$5 \times 2 = 10$$

$$17 - 7 = 10$$

Hence, **option 4** is the correct answer.

Question 15 :

A # B means 'A is the sister of B'. A @ B means 'A is the son of B'. A & B means 'A is the father of B'. A % B means 'A is the mother of B'. If W @ Q % T & Y @ M % K, then how is Q related to K?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

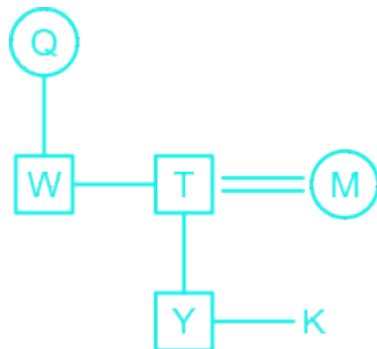
1. Daughter
2. Father's mother
3. Mother
4. Mother's mother

Solution :

The correct answer is **option 2** i.e. **Father's mother**.

In the diagram shown;

Square shows males, the circle shows females, vertical lines show generations, a single horizontal line shows brothers or sisters, and double lines show a couple.



From the above figure, Q is the father's mother of K.

Hence, **option 2** is the correct answer.

Question 16 :

Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. Statements: Some fingers are toes. Some toes are rings. Some rings are hands. Conclusions: I. Some hands are toes. II. Some rings are fingers. III. Some hands are fingers. IV. Some fingers are rings.

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. None of the conclusions follow
2. Only conclusions III and IV follow
3. Only conclusions II and III follow
4. Only conclusions I and II follow

Solution :

The correct answer is **option 1** i.e. **None of the conclusions follow.**

The least possible Venn Diagram for the given statements is drawn below:

**Conclusions:**

- I. Some hands are toes **False** (It is possible, but no definite conclusion can be drawn.)
II. Some rings are fingers **False** (It is possible, but no definite conclusion can be drawn.)
III. Some hands are fingers **False** (It is possible, but no definite conclusion can be drawn.)
IV. Some fingers are rings **False** (It is possible, but no definite conclusion can be drawn.)

Hence, **None of the conclusions follow.**

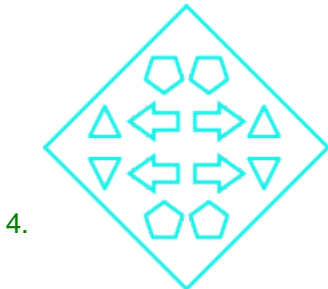
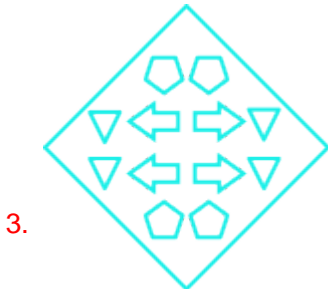
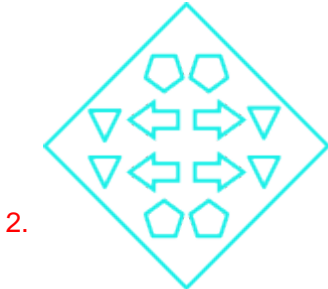
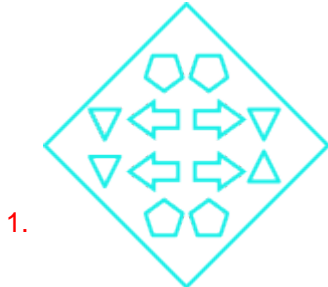
Question 17 :

A paper is cut and folded as shown below. How will it appear when unfolded?

Difficulty : Moderate

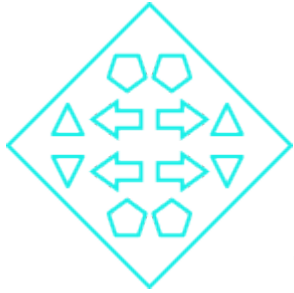
Average Time : 76 Seconds

Options :



Solution :

The correct answer is **option 4** i.e.



After unfolding, the paper will appear as follows:



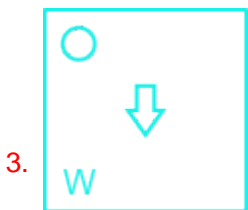
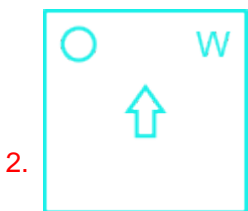
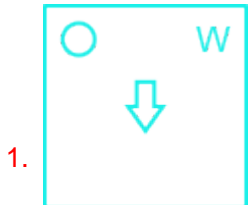
Question 18 :

Select the figure from among the given options that can replace the question mark (?) in the following series.

Difficulty : Moderate

Average Time : 61 Seconds

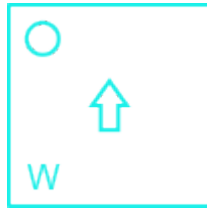
Options :



4.



Solution :

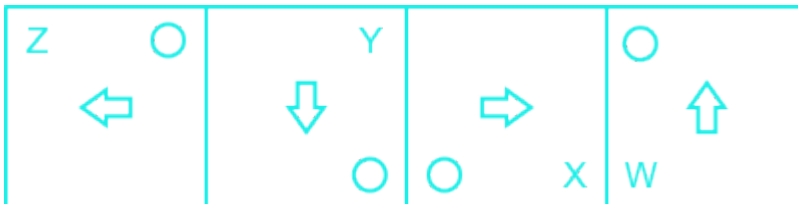


The correct answer is **option 4**.

The logic used here is:

1. The circle is rotating in a clockwise direction.
2. The arrow is rotating at the same position in the anticlockwise direction.
3. The letters inside the square are moving in a clockwise direction and the letter in the next figure is replaced by the previous letter.

The series of figures is:



Hence, the correct answer is **option 4**.

Question 19 :

By interchanging the given two signs which of the following equation will be not correct? + and –

Difficulty : Moderate

Average Time : 77 Seconds

Options :

1. $8 \div 4 \times 6 + 5 - 9 = 16$
2. $15 + 3 \times 4 - 6 \div 2 = 6$
3. $3 \times 2 - 72 \div 6 + 8 = 18$

$$3 + 4 - 2 \times 5 \div 1 = 9$$

Solution :

The correct answer is **option 3** i.e. $3 \times 2 - 72 \div 6 + 8 = 18$.

Given conditions: + and -

Option 1: $8 \div 4 \times 6 + 5 - 9 = 16$

After interchanging the expression becomes:

$$= 8 \div 4 \times 6 - 5 + 9 = 16$$

$$= 2 \times 6 - 5 + 9$$

$$= 12 - 5 + 9$$

$$= 16 \text{ is equal to } 16.$$

Option 2: $15 + 3 \times 4 - 6 \div 2 = 6$

After interchanging the expression becomes:

$$= 15 - 3 \times 4 + 6 \div 2 = 6$$

$$= 15 - 3 \times 4 + 3$$

$$= 15 - 12 + 3$$

$$= 6 \text{ is equal to } 6.$$

Option 3: $3 \times 2 - 72 \div 6 + 8 = 18$

After interchanging the expression becomes:

$$= 3 \times 2 + 72 \div 6 - 8 = 18$$

$$= 3 \times 2 + 12 - 8$$

$$= 6 + 12 - 8$$

$$= 10 \text{ is not equal to } 18.$$

As we have found our answer, so, there is no need of checking other options.

Hence, **option 3** is the odd one out.

Question 20 :

Select the option that is related to the fifth letter cluster in the same way as the second letter cluster is related to the first letter cluster and the fourth letter cluster is related to the third letter cluster. HERO: JGPM:: FLOW: HNMU:: DIAL:?



Difficulty : Moderate

Average Time : 82 Seconds

Options :

1. KYFJ
2. JFYK
3. FLIJ
4. **FKYJ**

Solution :

The correct answer is **option 4** i.e. **FKYJ**.

The logic used here is:

HERO: JGPM

$$H + 2 = J$$

$$E + 2 = G$$

$$R - 2 = P$$

$$O - 2 = M$$

FLOW: HNMU

$$F + 2 = H$$

$$L + 2 = N$$

$$O - 2 = M$$

$$W - 2 = U$$

Similarly,

DIAL:?

$$D + 2 = F$$

$$I + 2 = K$$

$$A - 2 = Y$$

$$L - 2 = J$$

Hence, **option 4** is the correct answer.

**Question 21 :**

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
ABCD, HGLO, OLUZ, VQDK, ?

Difficulty : Moderate**Average Time : 57 Seconds****Options :**

1. RTQV
2. CYQR
3. CMVQ
4. CVMV

Solution :

The correct answer is **option 4** i.e. **CVMV**.

Given series: ABCD, HGLO, OLUZ, VQDK, ?

The series follows this pattern:

ABCD, HGLO

$$A + 7 = H$$

$$B + 5 = G$$

$$C + 9 = L$$

$$D + 11 = 15$$

Similarly;

VQDK, ?

$$V + 7 = C$$

$$Q + 5 = V$$

$$D + 9 = M$$

$$K + 11 = V$$

So, the next term in the series is **CVMV**.

Question 22 :

In the following question below are given some statements followed by some conclusions based on those statements.

Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements. Statements: I. All A are D. II. No D is E. Conclusions: I. No E is A. II. All D are A. III. All E are D.

Difficulty : Moderate

Average Time : 67 Seconds

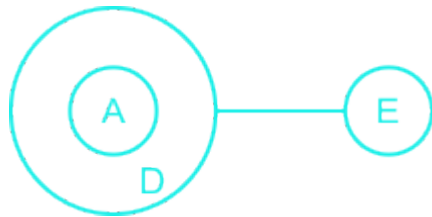
Options :

1. Only conclusion I follows
2. Only conclusion III follows
3. Only conclusion II follows
4. Neither conclusion follows

Solution :

The correct answer is **option 1** i.e. **Only conclusion I follows.**

The least possible Venn Diagram for the given statements is drawn below:



Conclusions:

- I. No E is A **True** (As no D is E, and all A are D, so, no E is A is also true.)
II. All D are A **False** (It is possible, but no definite conclusion can be drawn.)
III. All E are D **False** (It is possible, but no definite conclusion can be drawn.)

Hence, **Only conclusion I follows.**

Question 23 :

Select the set in which the numbers are related in the same way as are the numbers of the following set. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits.)
(4, 25, 6) (8, 25, 3)

Difficulty : Moderate

Average Time : 75 Seconds

Options :



(3, 81, 6)

2. (7, 22, 3)

3. (12, 96, 8)

4. (14, 55, 4)

Solution :

The correct answer is **option 2** i.e. **(7, 22, 3)**.

The logic used here is:

(4, 25, 6)

$$4 \times 6 + 1 = 24 + 1 = 25$$

(8, 25, 3)

$$8 \times 3 + 1 = 24 + 1 = 25$$

Similarly,

(7, 22, 3)

$$7 \times 3 + 1 = 21 + 1 = 22$$

Hence, **option 2** is the correct answer.

Question 24 :

By interchanging the given two signs and numbers which of the following equation will be correct? \times and \div , 7 and 9

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. $9 - 7 \times 2 + 6 \div 3 = 11$

2. $9 + 4 \times 3 - 7 \div 1 = 40$

3. $8 \times 3 \div 6 + 9 - 7 = 14$

4. $9 \times 3 + 4 \div 2 - 7 = 18$

Solution :

The correct answer is **option 3** i.e. $8 \times 3 \div 6 + 9 - 7 = 14$.

Given conditions: \times and \div , 7 and 9

Option 1: $9 - 7 \times 2 + 6 \div 3 = 11$

After interchanging the expression becomes:

$$= 7 - 9 \div 2 + 6 \times 3 = 11$$

= 20.50 is not equal to 11.

Option 2: $9 + 4 \times 3 - 7 \div 1 = 40$

After interchanging the expression becomes:

$$= 7 + 4 \div 3 - 9 \times 1 = 40$$

= -0.66 is not equal to 40.

Option 3: $8 \times 3 \div 6 + 9 - 7 = 14$

After interchanging the expression becomes:

$$= 8 \div 3 \times 6 + 7 - 9 = 14$$

= 14 is equal to 14.

As we have found our answer, so, there is no need of checking other options.

Hence, **option 3** is the correct answer.

Question 25 :

Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Difficulty : Moderate

Average Time : 78 Seconds

Options :

1. (600 – 300 – 150)

2. (400 – 200 – 50)

3. (1000 – 500 – 250)

4. (200 – 100 – 50)

Solution :

The correct answer is **option 2** i.e. (400 – 200 – 50).

The logic used here is:



1st number $\div 2 =$ 2nd number

2nd number $\div 2 =$ 3rd number

Option 1: (600 – 300 –150)

$600 \div 2 = 300$

$300 \div 2 = 150$

This follows the logic.

Option 2: (400 – 200 –50)

$400 \div 2 = 200$

$200 \div 2 = 100$

This does not follow the logic.

Hence, **option 2** is the odd one out.

Question 26 :

If $A - B$ means that A is the mother of B, $A + B$ means that A is the father of B, $A \div B$ means that A is the sister of B. Then which of the following expression shows that P is the aunt of Q?

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. $P + R \div Q$

2. $P - R + Q$

3. $P \div R - Q$

4. $R \div P - Q$

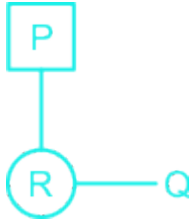
Solution :

The correct answer is **option 3** i.e. $P \div R - Q$.

In the diagram shown;

Square shows males, the circle shows females, vertical lines show generations, a single horizontal line shows brothers or sisters, and double lines show a couple.

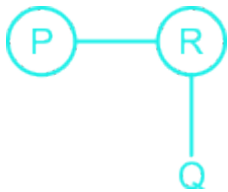
Option 1: $P + R \div Q$



Option 2: $P - R + Q$



Option 3: $P \div R - Q$



From option 3, P is the aunt of Q.

Hence, **option 3** is the correct answer.

Question 27 :

Select the option that is related to the third word in the same way as the second word is related to the first word. (The words should be treated as meaningful English/Hindi words and should not be linked to each other on the basis of the number of letters/number of consonants/number of vowels in the word.) Panda: Bamboo:: Koala:?

Difficulty : Moderate

Average Time : 89 Seconds

Options :

1. $\text{à}^{\text{à}}\text{à}^{\text{à}}\text{à}^{\text{à}}\text{à}^{\text{à}}$
2. $\text{à}^{\text{à}}\text{à}^{\text{à}}\text{à}^{\text{à}}\text{à}^{\text{à}}$,
3. $\text{à}^{\text{à}}\text{à}^{\text{à}}\text{à}^{\text{à}}\text{à}^{\text{à}}\text{à}^{\text{à}}\text{à}^{\text{à}}\text{à}^{\text{à}}\text{à}^{\text{à}}\text{à}^{\text{à}}\text{à}^{\text{à}}\text{à}^{\text{à}}$,

àà@àà>àà²

Solution :

The correct answer is **option 3** i.e. **Eucalyptus**.

The logic used here is:

Panda: Bamboo

Panda eats bamboo plants.

Similarly,

Koala:?

Koala eats the eucalyptus plant.

Hence, **option 3** is the correct answer.

Question 28 :

Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. d a w 6 8 7 k r
2. q s m 0 3 4 k r
3. b s m 0 3 4 K r
4. b s m 0 3 4 K r

Solution :

The correct answer is **option 2** i.e. **q s m 0 3 4 k r**.

The mirror image of the question figure is shown below:



Since the mirror is placed right to the question figure, the right-hand side of the original image will be now the left-hand side of the mirror image.



Hence, **option 2** is the correct answer.

Question 29 :

Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number. 10: 45:: 6: 25:: 9:?

Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. 38

2. 36

3. 42

4. 40

Solution :

The correct answer is **option 4** i.e. **40**.

The logic used here is:

10: 45

$$(10 - 1) \times 5 = 9 \times 5 = 45$$

6: 25

$$(6 - 1) \times 5 = 5 \times 5 = 25$$

Similarly,

9:?

$$(9 - 1) \times 5 = 8 \times 5 = 40$$

Hence, **option 4** is the correct answer.

Question 30 :

In a certain code language, 'NUMERICAL' is written as 'ICALRNUME', and 'SCATTERED' is written as 'EREDTSCAT'. How will 'EXPLOSION' be written in that language?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. SIONOXEPL

SIONOEXPL

3. SIONOXELP

4. SIONOEXLP

Solution :

The correct answer is **option 2** i.e. **SIONOEXPL**.

The logic used here is:

'NUMERICAL' is written as 'ICALRNUME'



'SCATTERED' is written as 'EREDTSCAT'



Similarly;

Code for the word EXPLOSION:



Hence, **option 2** is the correct answer.

Question 31 :

Three of the following letter clusters are alike in some manner and hence form a group. Which letter cluster does not belong to that group?

Difficulty : Moderate

Average Time : 62 Seconds

Options :

WDLF

2. YBXR

3. PKSM

4. IRMT

Solution :

The correct answer is **option 4** i.e. **IRMT**.

The logic used here is:

Opposite of 1st letter = 2nd letter

3rd letter - 6 = 4th letter

Option 1: WDLF

Opposite of W = D

L - 6 = F

This follows the logic.

Option 2: YBXR

Opposite of Y = B

X - 6 = R

This follows the logic.

Option 3: PKSM

Opposite of P = K

S - 6 = M

This follows the logic.

Option 4: IRMT

Opposite of I = R

M - 6 = G

This does not follow the logic.

Hence, **option 4** is the odd one out.

**Question 32 :**

In a certain code language, 'BYE' is coded as '245', and 'OLA' is coded as '265'. How will 'CAR' be coded in that language?

Difficulty : Moderate**Average Time : 69 Seconds****Options :**

1. 280
2. 285
3. 295
4. 300

Solution :

The correct answer is **option 3** i.e. **295**.

The logic used here is:

'BYE' is coded as '245'

Opposite of B = Y = 25

Opposite of Y = B = 2

Opposite of E = V = 22

BYE = 25 + 2 + 22 = 49

Code for the word BYE = 49 × 5 = 245

'OLA' is coded as '265'

Opposite of O = L = 12

Opposite of L = O = 15

Opposite of A = Z = 26

OLA = 12 + 15 + 26 = 53

Code for the word OLA = 53 × 5 = 265

Similarly;

Code for the word CAR:



Opposite of C = X = 24

Opposite of A = Z = 26

Opposite of R = I = 9

CAR = 24 + 26 + 9 = 59

Code for the word CAR = 59 × 5 = 295

Hence, **option 3** is the correct answer.

Question 33 :

Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.

65 * 45 * 25 * 5 * 35 * 60

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. , +, ÷, +, =

2. +, ×, +, , =

3. +, , +, , =

4. , +, , +, =

Solution :

The correct answer is **option 1** i.e. , +, ÷, +, =.

Given equation: 65 * 45 * 25 * 5 * 35 * 60

After interchanging the expression becomes:

= 65 - 45 + 25 ÷ 5 + 35 = 60

= 65 - 45 + 5 + 35

= 60 is equal to 60.

As we have found our answer, so, there is no need of checking other options.

Hence, **option 1** is the correct answer.

Question 34 :

Select the option that represents the correct order of the given words as they would appear in an English dictionary. 1- Laudanum 2- Lattice 3- Laudation 4- Latterly 5- Laudable

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 2, 4, 5, 3, 1
2. 2, 4, 1, 5, 3
3. 4, 2, 3, 1, 5
4. 4, 2, 5, 1, 3

Solution :

The correct answer is **option 4** i.e. 4, 2, 5, 1, 3.

In this question, you need to arrange the words as they would appear in the English dictionary.

- 1- Latterly
- 2- Lattice
- 3- Laudanum
- 4- Laudable
- 5- Laudation

Hence, **option 4** is the correct answer.

Question 35 :

The Comptroller and Auditor General of India is a:

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. two-member body
2. three-member body
3. single-member body
4. six-member body

Solution :

The correct answer is **option 3** i.e. **single-member body**.

The Comptroller and Auditor General of India is the supreme audit institution of India, established under **Article 148** of the



Constitution of India.

Term length -6 yrs or up to 65 yrs of age (whichever is earlier)

Shri Girish Chandra Murmu, is appointed as the **New CAG of India** on 7th August 2020.

Key role of Comptroller and Auditor General of India -

- a. to audit all transactions of the Union and of the States relating to Contingency Funds and Public Accounts;
 - b. to audit all trading, manufacturing, profit and loss accounts and balance-sheets and other subsidiary accounts kept in any department of the Union or of a State; and in each case to report on the expenditure, transactions or accounts so audited by him.
1. **Article 149** deals with Duties and Powers of the Comptroller and Auditor-General of India.
 2. **Article 150** states that the accounts of the Union and of the States shall be kept in such form as the President may, on the advice of the CAG, prescribe.
 3. **Article 151** says that the reports of the CAG of India relating to the accounts of the Union shall be submitted to the president, who shall cause them to be laid before each House of Parliament.

Question 36 :

Which of the following led English company in Battle of Plassey (1757)?

Difficulty : Moderate

Average Time : 98 Seconds

Options :

1. Lord Dalhousie
2. Captain Hodson
3. Warren Hastings
4. Robert Clive

Solution :

The correct answer is **option 4** i.e. **Robert Clive**.

The Battle of Plassey was fought in north-eastern India on **23 June 1757**. Troops of the British East India Company, led by **Robert Clive**, came up against the forces of Siraj-ud-Daulah, the last Nawab of Bengal, and his French allies.

Britishers won the battle and the victory was made possible by the defection of Mir Jafar, who was Nawab Siraj-ud-Daulah's commander in chief.

Events that preceded the Battle of Plassey and became a cause for this battle:



Siraj-Ud-Daula was succeeded by his grandfather Alivardi Khan to become the Nawab of Bengal. He had become the Nawab of Bengal the year before, and he had ordered the English to stop the extension of their fortification.

- The victory of Britishers in the Carnatic wars has made Siraj-Ud-Daula apprehensive about the rising power of Britishers in India.
- The officials of the Company made rampant misuse of its trade privileges that adversely affected the nawab's finances.
- The Britishers fortified Fort Williams without the permission of Nawab which infuriated him further. He marched to Fort Williams and captured 146 Britishers and imprisoned them in a small room due to which 123 Britishers died. This incident is known as "Black Hole Tragedy of Calcutta".
- Upon this, Robert Clive was sent to Bengal to strengthen the position of Britishers in Bengal. He bribed some of the chief members of the Nawab of Bengal and promised kinship to Mir Jafar in return for his betrayal to Nawab.

Question 37 :

As the river enters the plain it twists and turns forming large bends known as _____.

Difficulty : Moderate**Average Time : 112 Seconds****Options :**

1. ox-bow
2. levees
3. floodplains
4. meanders

Solution :

The correct answer is **option 4** i.e. **meanders**.

A meander is **when water flows in a curvy, bendy path, like a snake**. As a river makes its way through an area that is relatively flat, it often develops bends as it erodes its way through the path of least resistance. Once a meander starts, it often becomes more and more exaggerated.

Example -The Amazon River is the largest by water volume and sediment discharge in the world. The scale of the meanders here are immense compared with other large rivers. The amplitude from the top of the meander to the lower curves of the neighboring meanders is 18 kilometers (11 miles).

Additional Information-

oxbow	An oxbow lake is a U-shaped lake or pool that forms when a wide meander of a river is cut off, creating a free-standing body of water.
levees	A low wall built at the side of a river to prevent it from flooding
Floodplains	A floodplain (or floodplain) is a generally flat area of land next to a river or stream. It stretches from the banks of the river to the outer edges of the valley.

Question 38 :

What does the letter 'M' stand for in the MRTP Act 1969?

Difficulty : Moderate

Average Time : 99 Seconds

Options :

1. Monopolistic
2. Monopolies
3. Multi
4. Monopoly

Solution :

the correct answer is **option 2** i.e. **Monopolies**.

M stands for "**Monopolies and Restrictive Trade Practices**."

"Monopolies and Restrictive Trade Practices -

- The objective of the MRTP Act and the Consumer Protection Act is **to engender competition**. The concept of public interest which includes consumer interest permeates the regulatory framework provided for the prohibition of monopolistic, restrictive and unfair trade practices in both the statutes.

Aim of the Act:

- MRTP Act came into existence on 1 June 1970. The law was enacted with the sole aim of **achieving the largest possible production with the least damage to people at large whilst securing maximum benefit**.

The Competition Act, 2002 was enacted by the Parliament of India and governs Indian competition law. It replaced the archaic The Monopolies and Restrictive Trade Practices Act, 1969.

**Question 39 :**

Harihara and Bukka established an independent state in Karnataka and established the capital city Vijayanagar on the banks of river _____ in 1336.

Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. Betwa
2. Tungabhadra
3. Mahanadi
4. Tapi

Solution :

The correct answer is **option 2** i.e. **Tungabhadra**

Harihara and Bukka founded the Vijayanagar state in 1336. They founded an independent state in Karnataka. They established Vijayanagar as its capital city on the banks of the **Tungabhadra River**.

- The capital of the Vijayanagar Kingdom was at **Hampi** .
 - **From 1336 to 1672, Vijayanagar was ruled by four dynasties: Sangama, Saluva, Tuluva, and Aravidu.**
 - A part of Vijayanagara ruins known as Hampi has been designated as a UNESCO world heritage site. Vijayanagara is in the eastern part of central Karnataka.
1. The **Sangama dynasty** was founded by **Harihara I and Bukka**. Sangama dynasty ruled from **1336 to 1485 A.D.** Harihara I was the first ruler of Vijayanagara kingdom.
 2. **Saluva** - the second dynasty to rule the Vijayanagar Empire established by **Vir Narasimha**. 1431–1491 CE.
 3. **Tuluva** is the name of the third Dynasty of the Vijayanagara Empire **1491 to 1570**. **Tuluva Narasa Nayaka** was the founder of the Tuluva dynasty of the Vijayanagara Empire. The outstanding Tuluva king was **Krishna Deva Raya**. During his reign (1509–29) the land between the Tungabhadra and Krishna rivers (the Raichur doab) was acquired (1512), the Orissa Hindus were subdued by the capture of Udayagiri (1514) and other towns.
 4. The **Aravidu Dynasty** was the fourth and last Hindu dynasty of Vijayanagara Empire in South India Ruled from **1542 to 1652 A.D.** Its founder was Tirumala Deva Raya, whose brother Rama Raya had been the masterful regent of the last ruler of the previous dynasty. Ramraya was the last ruler of the Vijayanagar empire.
 5. The Battle of Talikota was fought between the Vijayanagar kings and the Deccan Kings in 1565. **Ramaraya was defeated in this war.** The battle resulted in the defeat of Rama Raya which led to the eventual collapse of the polity and reconfigured Deccan politics.

Krishna dev raya emperor of the Vijayanagara Empire reigning from 1509 to 1529. He was the **third monarch of the Tuluva dynasty**, and is considered to be one of the greatest rulers in Indian history.

Krishna Deva Raya was also known as **Kannada Rajya Rama Ramana, Andhra Bhoja, and Mooru Rayara Ganda.**

- Krishna Deva Raya's reign is regarded as the golden age of Telugu literature.
- Eight Telugu poets, known as **Ashtadiggajas**, were considered the eight pillars of his literary assembly.
- Eight Telugu poets were regarded as the eight pillars of the literary assembly in his court.
- Krishna Dev Raya wrote the epic Telugu poem **Amuktamalyada.**
- During his reign, Portuguese travellers **Domingo Paes and Fernao Nuniz** also visited the Vijayanagara Empire.

Question 40 :

Match the industrial plant with its location.

Difficulty : Moderate

Average Time : 163 Seconds

Options :

1. 1-A,2-B,3-C,4-D
2. 1-C,2-A,3-B,4-D
3. 1-C,2-A,3-D,4-B
4. 1-D,2-A,3-B,4-C

Solution :

The correct answer is **option 3** i.e. **1-C,2-A,3-D,4-B**

1. **(BALCO)** was an Indian government owned aluminium producer under Ministry of Mines, Government of India. BALCO stands for **Bharat Aluminium Company Limited**. It is an Indian Aluminium company. It was founded in 1965 and is headquartered in New Delhi.

- Power station in Korba, Chhattisgarh

2. **IISCO (Steel Plant of Steel Authority of India Limited)** is an integrated steel plant.

- Located at **Kulti, Burnpur, Hirapur , West Bengal.**

3. **National Fertilizers Limited (NFL)** - has five gas-based urea plants viz **Nangal and Bathinda in Punjab, Panipat in Haryana and two at Vijaipur (Madhya pradesh).**

4. **ICF - The Integral Coach Factory** is one of the earliest production units of independent India. It was inaugurated by the first Prime Minister of India Pt. Jawaharlal Nehru on 2nd October, 1955. Integral Coach Factory is a manufacturer of rail coaches

- Located in **Lakshmipuram, Perambhur, Chennai, Tamil Nadu.**

Question 41 :

Identify the correct chemical formula of chloroform.

Difficulty : Moderate

Average Time : 98 Seconds

Options :

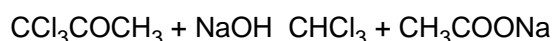
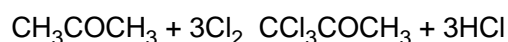
1. CHCl_3
2. CHCl
3. CHCl_2
4. CH_2Cl_2

Solution :

The correct answer is **option 1** i.e. CHCl_3

Chloroform, or trichloromethane (often abbreviated as TCM), is an organic compound with the formula CHCl_3 and a common organic solvent. Other names for chloroform are **trichloromethane and methyl trichloride**.

- Chloroform is a man-made by-product formed when chlorine is used to disinfect water.
- Chloroform is also used in industrial processes. It is a colorless liquid with a pleasant, non-irritating smell and a slightly sweet taste.
- It is nonflammable.
- Chloroform is used **as a solvent, a substance that helps other substances dissolve**. Also, it is used in the building, paper and board industries, and in pesticide and film production.
- **Chloroform reaction:** Chloroform is obtained by heating ethyl alcohol, acetaldihyde or any methyl kiton such as acetone and methyl ethyl kiton with an aqueous solution of chlorine and an alkali. This reaction is called **chloroform reaction**.

Chloroform Reaction-**Reaction of acetone chlorine and NaOH solution****Chloroform Preparation:**



Final Reaction :



Question 42 :

How much percentage of oxygen is present in the atmosphere?

Difficulty : Moderate

Average Time : 190 Seconds

Options :

1. 39%
2. 79%
3. 10%
4. 21%

Solution :

The correct answer is **option 4** i.e. **21%**.

Oxygen is present as **21%** of the total volume of the atmosphere.

By volume, the dry air in Earth's atmosphere is about **78.08 percent nitrogen, 20.95 percent oxygen, and 0.93 percent argon**. A brew of trace gases accounts for the other approximately 0.04 percent, including the greenhouse gases carbon dioxide, methane, nitrous oxide and ozone.

Question 43 :

In which season is Sarhul celebrated in Jharkhand?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. Spring
2. Autumn
3. Monsoon
4. Winter

Solution :

The correct answer is **option 1** i.e. **Spring**.

Sarhul the main festival of the tribal population of **Jharkhand**. The verbal meaning of Sarhul is worship of the Sal tree is



celebrated during **spring season** and the Saal trees get new flowers on their branches.

- It is a worship of the village deity who is considered to be the protector of the tribes. People sing and dance a lot when the new flowers appear.
- Celebrated **every year** on Chaitra Shukla Tithiya, the third moon day falling in the month of Chaitra. According to the western calendar, it comes in March or April. In 2023, it is falling on 24 March 2023.
- Mostly Munda, Oraon, Ho and Santhals celebrate this festival.

Question 44 :

What is the average thickness of the continental crust of the earth?

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. 300 km
2. 5 km
3. 30 km
4. 2.5 km

Solution :

The correct answer is **option 3** i.e. **30km**.

The average crustal thickness of oceanic crust is 6–7 km (excluding the 4–5 km of water) and the average thickness of continental crust is about **30-40 km**.

1. The **continental crust** is the layer of **granitic, sedimentary, and metamorphic rocks**, which form the continents and the areas of shallow seabed close to their shores (continental shelves).
2. **Oceanic crust** is generally composed of dark-colored rocks called basalt and gabbro. It is thinner and denser than continental crust, which is made of light-colored rocks called andesite and granite. The low density of continental crust causes it to “float” high atop the viscous mantle, forming dry land.

Question 45 :

Which of the following events was conducted by the Ministry of Ayush, Gol to mark the 100-day countdown to the International Day of Yoga 2022?

Difficulty : Moderate

Average Time : 67 Seconds

Options :



Yoga Mahotsav

2. Yoga Utsav
3. Yoga Sutra
4. Yoga Umang

Solution :

The correct answer is **option 1** i.e. **Yoga Mahotsav**.

Yoga Mahotsav was conducted by the Ministry of Ayush, Gol to mark the 100-day countdown to the International Day of Yoga 2022.

1. **Morarji Desai National Institute of Yoga under Ministry of Ayush organized Yoga Mahotsav-2022.** Union Minister of Ayush and Ports, Shipping & Waterways Shri Sarbananda Sonowal, inaugurated the event to commemorate 100 days countdown to International Day of Yoga-2022.
2. **The basic objective** of this event was to give a wider promotion and publicity to various dimensions of Yoga and its utility and also to promote the 100 days countdown campaign to **IDY-2022 for Health, Well-being and World Peace**.
3. IDY-2022 is the 8th edition of International Day of Yoga

Question 46 :

Who moved the Objective Resolution that was later adapted as the Preamble of the Constitution of India?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. Rajendra Prasad
2. JB Kripalani
3. Jawaharlal Nehru
4. BR Ambedkar

Solution :

The correct answer is **option 3** i.e. **Jawaharlal Nehru**

Pandit Jawaharlal Nehru introduced the Objective Resolution on **December 13, 1946**, which provided the philosophy and guiding principles for framing the Constitution and later took the form of Preamble of the Constitution of India.

- This Resolution was adopted by the Constituent Assembly on **22 January 1947**.



It forms the **basis of Preamble** of Indian Constitution.

The Resolution states –

- To foster unity of the nation and to ensure its economic and political security, to have a written Constitution, and to proclaim India as a Sovereign, Democratic Republic.
- To have a federal form of government with the distribution of powers between the Centre and the States.
- To guarantee and secure justice, equality, freedom of thought, expression, belief, faith, worship, vocation, association and action to all the people of India.
- To provide adequate safeguards for minorities, backward and tribal areas and depressed and other backward classes.
- To maintain the integrity of the territory of the Republic and the sovereign rights on land, sea and air according to the law of civilized nations.
- To attain rightful and honoured place in the world and make willing contribution to the promotion of world peace and the welfare of mankind.

Question 47 :

Which of the following pairs of musicians and their instruments is INCORRECT?

Difficulty : Moderate

Average Time : 91 Seconds

Options :

1. K Vaidyanathan – Sitar
2. Pt. Ram Narayan – Sarangi
3. Ustad Vilayat Khan – Sitar
4. Bismillah Khan – Shehnai

Solution :

The correct answer is **option 1** i.e. **K Vaidyanathan – Sitar**

Kunnakudi Vaidyanathan (2 March 1935 – 8 September 2008) was an Indian classical **music violinist and music composer**.

Awards. He was awarded the prestigious "**Padma Shri**" title by the Indian government, **Kalaimamani award, Sangeet Natak Akademi Award by the Sangeet Natak Akademi in 1993, and the Karnataka Isaignani award.**

Question 48 :

Which of the following becomes the first district in India to cover 100% households under ABPMJAY- SEHAT scheme?

Difficulty : Moderate

Average Time : 51 Seconds

**Options :**

1. Samba, Jammu and Kashmir
2. Pratapgarh, Rajasthan
3. Kheda, Gujarat
4. Mansa, Punjab

Solution :

The correct answer is **option 1** i.e. **Samba, Jammu and Kashmir**.

Samba, Jammu and Kashmir became 1st district in India to cover 100% households under ABPMJAY- SEHAT scheme. **Ayushman Bharat Pradhan Mantri Jan Arogya Yojana (ABPMJAY)- SEHAT scheme.**

- The Samba district has a total of 62,641 families with 3, 04,510 people eligible for ABPM-JAY SEHAT golden cards.
- This ambitious health insurance scheme enables all the residents of J&K including employees and pensioners as well as their families to avail cashless quality healthcare services across public and empaneled private hospitals across India.
- **The Ayushman Bharat Pradhan Mantri Jan Arogya Yojana scheme is the world's largest health insurance scheme fully financed by the government and provides a cover of Rs five lakh per family per year for secondary and tertiary care hospitalization, they said.**

Question 50 :

Who among the following launched the Scheme "SHRESHTA" for residential education for students in High school in Targeted Areas?

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. Virendra Kumar
2. Piyush Goel
3. Vijay Goel
4. P P Chaudhary

Solution :

The correct answer is **option 1** i.e. **Virendra Kumar**.

Union Minister of social Justice and empowerment Dr.Virendra Kumar launched the Scheme "SHRESHTA" for



residential education for students in High school in Targeted Areas.

The government has approved a new scheme named **SHRESHTA (Residential Education for Students in High Schools in Targeted Areas)** for the purpose of providing seats for the meritorious SC boys and girls in the best private residential schools in the country.

The **objective** of the Scheme for Residential Education for Students in High Schools in Targeted Areas (SHRESHTA) is as follows:

1. To enhance the reach of the development initiative of the government.
2. To fill the gap in service-deprived Scheduled Castes (SCs) dominant areas in the sector of education by collaborating with voluntary organizations.
3. To provide an environment for socio-economic upliftment and overall development of the Scheduled Castes (SCs).
4. To provide access to high-quality education to bright Scheduled Caste (SC) students so that they can explore future opportunities.

Question 51 :

Identify the organism that is NOT a pseudocoelomate.

Difficulty : Moderate

Average Time : 79 Seconds

Options :

1. *Ancylostoma*
2. *Ascaris*
3. *Wuchereria*
4. *Scorpions*

Solution :

The correct answer is **option 4** i.e. **Scorpions**.

Pseudocoelomates are animals whose body cavity is pseudocoelom, i.e. the mesoderm is present as scattered pouches in between the ectoderm and endoderm rather than as a continuous layer.

- Pseudocoelomate animals are also known as Blastocoelomate animals.

On the other hand, Scorpion belongs to group Arthropoda which possess true body cavity, i.e., coelom and hence called coelomates.

- A coelomate animal has a body cavity in which well-developed organs can be accommodated. For example, **annelids, molluscs, and arthropods**. Coelom is a cavity lined by mesoderm and is present between the alimentary canal and body wall. The organisms that have true coelom are triploblastic, i.e. ectoderm, mesoderm, and

endoderm.

Question 52 :

The word Manuscripts derived from which of the following language?

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. Latin
2. Prakrit
3. Sanskrit
4. Greek

Solution :

The correct answer is **option 1** i.e. **Latin**.

Manuscript means a written or typewritten composition or document as distinguished from a printed copy .It is evolved from the **Latin manu scriptus**, meaning “written by hand.” Manu is “hand” and scriptus is “to write.” It refers to old documents actually written by hand before books were made, but it can also refer to a writer's unpublished work whether it's handwritten or typed.

Question 53 :

The Appropriation bill, 2022 was passed in Lok Sabha on _____.

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. March 24, 2022
2. February 20, 2022
3. April 20, 2022
4. May 10, 2022

Solution :

The correct answer is **option 4** i.e. **May 10, 2022**.

Lok sabha passed the Appropriation Bill 2022 on **May 10, 2022**. The Demands for Grants and Appropriation Bill 2022, authorising the government to withdraw Rs 122.43 lakh crore from the Consolidated Fund of India for its working as well as

implementation of programmes and schemes for the fiscal beginning April 1.

1. **Article 114 of the Constitution**, the government can withdraw money from the Consolidated Fund only after receiving approval from Parliament.
2. The Appropriation Bill authorising payment and appropriation of Rs 122.43 lakh crore from the Consolidated Fund of India for 2022-23 was introduced by Finance Minister Nirmala Sitharaman.

The Consolidated Fund of India-

- It was **constituted under Article 266 (1) of the Constitution of India.**
- It is made up of:
 - All revenues received by the Centre by way of taxes (Income Tax, Central Excise, Customs and other receipts) and all non-tax revenues.
 - All loans raised by the Centre by issue of Public notifications, treasury bills (internal debt) and from foreign governments and international institutions (external debt).

Question 54 :

What kind of forces arise from transient dipoles in atoms that induce transient dipoles in nearby atoms, produce an attractive force and are significant only over short distances (~500 pm)?

Difficulty : Moderate

Average Time : 86 Seconds

Options :

1. Dipole-dipole forces
2. London dispersion forces
3. Dipole-induced dipole forces
4. Hydrogen bond

Solution :

The correct answer is **option 2** i.e. **London dispersion forces.**

The **London dispersion force** is a temporary attractive force that results when the electrons in two adjacent atoms occupy positions that make the atoms form temporary dipoles. This force is sometimes called an induced dipole-induced dipole attraction.

The strength of London dispersion forces is relatively weaker than dipole-dipole interactions; however both of these attractions are weaker than ionic or covalent bonds.

1. They are a type of intermolecular force acting between atoms and molecules that are normally electrically symmetric; that is, the electrons are symmetrically distributed with respect to the nucleus. They are part of the van der Waals forces.

This force is sometimes called an induced dipole-induced dipole attraction. London forces are the attractive forces that **cause nonpolar substances to condense to liquids and to freeze into solids when the temperature is lowered sufficiently.**

Properties of London Dispersive Forces

1. Forces are attractive.
2. Forces are present between all atoms – polar and nonpolar.
3. Larger atoms display stronger forces than smaller ones, i.e., the strength increases down a particular group in the periodic table.
4. Cylindrically shaped molecules allow more molecules to come close to one another than spherical ones, thereby increasing their strength

Examples of London Dispersive Forces

London dispersion forces are observed in nonpolar molecules. These include:

- Halogens: fluorine (F_2), chlorine (Cl_2), bromine (Br_2), and iodine (I_2)
- Nobel gases: helium (He), neon (Ne), argon (Ar), and krypton (Kr)

Question 55 :

Which of the following combinations of 'Ruler – Predecessor' is correct with respect to the Delhi Sultanate?

Difficulty : Moderate

Average Time : 108 Seconds

Options :

1. Alauddin Khalji – Jalaluddin Khalji
2. Jalaluddin Khalji – Alauddin Khalji
3. Muhammad Tughluq – Firuz Shah Tughluq
4. Ghiyasuddin Tughluq – Muhammad Tughluq

Solution :

The correct answer is **option 1** i.e. **Alauddin Khalji – Jalaluddin Khalji.**

1. Jalaluddin Khalji Founded the khilji dynasty in **1290 and ruled for 6 years till 1296.**
2. Alauddin was a nephew and a **son-in-law** of his predecessor Jalaluddin. When Jalaluddin became the Sultan of Delhi after deposing the Mamluks, Alauddin was given the position of Amir-i-Tuzuk .He killed Jalaluddin and succeeded the throne in 1296.

Alauddin Khalji-Alauddin Khalji was **one of the most powerful rulers from the Khalji dynasty and became the Sultan of Delhi.**

He was the first Turkish sultan of Delhi who separated religion from politics. He proclaimed "Kingship known as Kinship".

2. **He was the first Sultan to have a permanent army at the centre.**
3. He introduced the system of Daag and Huliya in the army.
4. Jazia was imposed on non-Muslims. They had to pay it along with other taxes like pilgrim tax, octroi etc.
5. He organised his army on the Decimal System.
6. He abolished the started paying the salary of the army in cash.
7. The post of a special officer called "Mustakhraj" was created to collect land revenue from peasants.

Additional detail-

1. **Muhammad Tughluq (1325-51) – Firuz Shah Tughluq(1351-88) - "Ruler -Successor"**
2. **Ghiyasuddin Tughluq (1320-25) – Muhammad Tughluq (1325-51)-"Ruler -Successor"**

Question 56 :

For how many days is the Hornbill festival held?

Difficulty : Moderate

Average Time : 103 Seconds

Options :

1. 5
2. 10
3. 15
4. 20

Solution :

The correct answer is **option 2** i.e. **10**.

The Hornbill festival held for 10 days takes place annually during the first week of december from 1 to 10 december every year in **Naga Heritage Village in Kisama, Kohima, Nagaland**. Hornbill Festival is one of the largest celebrations of the indigenous warrior Naga tribes of Nagaland.

Organized by the state Tourism art and cultural department.

1. **The significance of this festival** - To revive, promote, protect, sustain and showcase the rich cultural heritage and diversity of Naga Tribes.
2. In the year 2000, Hornbill Festival in Nagaland was celebrated for the first time and it included folk songs and dance,



traditional games, and some songs from their wars. And today, it's a grand affair where people from around the world come to become a part of it.

3. Hornbill Festival Nagaland, also known locally as the '**Festival of Festivals**',

Question 57 :

In the given figure, a circle is inscribed in $\triangle PQR$, such that it touches the sides PQ, QR and RP at points D, E, F respectively. If the lengths of the sides $PQ = 15$ cm, $QR = 11$ cm and $RP = 13$ cm, then find the length of PD.

Difficulty : Moderate**Average Time : 79 Seconds****Options :**

1. 9 cm
2. 8 cm
3. 7.5 cm
4. 8.5 cm

Solution :

The correct answer is **option 4** i.e. **8.5 cm**.

Concept used:

The lengths of tangents drawn from an external point to a circle are equal

Calculations:

Let the value of $ER = x$

Hence using the concept given;

$$ER = FR = x$$

$$PF = 13 - x \text{ and } PD = 13 - x \text{ (PF = PD)}$$

$$QE = 11 - x \text{ and } QD = 11 - x \text{ (QE = QD)}$$

Now, $QP = PD + QD$

$$15 = 13 - x + 11 - x$$

$$2x = 24 - 15$$

$$x = 4.5$$

We know that, $PD = 13 - x = 13 - 4.5 = 8.5$ cm

**Question 58 :**

If $\cot x - \tan x = 3/2$, then what will be the value of $\cot x + \tan x$?

Difficulty : Moderate**Average Time : 59 Seconds****Options :**

1. 3

2. 2

3. $5/2$ 4. $7/2$ **Solution :**

The correct answer is **option 3** i.e. $5/2$

Formula used:

If $x - 1/x = a$ then

$$x + 1/x = (a^2 + 2) \quad \text{----- (1)}$$

Calculations:

Let $\cot x = m$ and $\tan x = 1/m$

$$m - 1/m = 3/2$$

Using equation (1), we get

$$m + 1/m = ((3/2)^2 + 2)$$

$$m + 1/m = 25/4 = 5/2$$

Hence, $\cot x + \tan x = 5/2$

Question 59 :

The table given below shows the production of beauty products by five different companies. The production of beauty product by T is what percent of the production of beauty product by S?

Difficulty : Moderate**Average Time : 56 Seconds****Options :**

1. 40 percent



140 percent

3. 240 percent

4. 120 percent

Solution :

The correct answer is **option 2** i.e. **140 percent**.

Calculations:

The production of beauty product by T = 70

The production of beauty product by S = 50

Required percentage = $(70/50) \times 100 = 140\%$

Question 60 :

Observe the given graph and answer the following question. How many students obtained more than 135 marks?

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. 56

2. 55

3. 57

4. 58

Solution :

The correct answer is **option 4** i.e. **58**.

Calculations:

Total number of students who obtained more than 135 marks = $18 + 15 + 14 + 11 = 58$

Question 61 :

A pen was sold for Rs.166.44 with a profit of 14%. If it were sold for Rs.154.76, then what would have been the percentage of profit or loss?

Difficulty : Moderate

Average Time : 37 Seconds

Options :



5% loss

2. 6% profit

3. 5% profit

4. 6% loss

Solution :

The correct answer is **option 2** i.e **6% profit**.

Given:

Selling price after a profit of 14% = 166.44

Formula used:

Selling price = Cost price + Cost price \times profit%

Calculations:

Let the cost price be x .

Using the above equation, we get

$$166.44 = 1.14x$$

$$x = 146$$

When it is sold for 154.76

$$\text{Profit} = 154.76 - 146 = 8.76$$

$$\text{Required profit\%} = (8.76/146) \times 100 = 6\%$$

Question 62 :

If $(x = \{\sqrt{5} - 2 \over \sqrt{5} + 2\})$, then the value of $x^2 + x - 2$ is :

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 350

2. 345

3. 284

4. 322

**Solution :**

The correct answer is **option 4** i.e. **322**.

Formula used:

$$(a + b)^2 = a^2 + b^2 + 2ab \quad \text{---- (1)}$$

Calculations:

$$\left(x = \frac{\sqrt{5} - 2}{\sqrt{5} + 2}\right)$$

$$\left(x = \frac{(\sqrt{5} - 2)^2}{\sqrt{5}^2 - 2^2}\right)$$

$$x = 9 - 45$$

$$1/x = 9 + 45$$

$$x + 1/x = 9 - 45 + 9 + 45 = 18$$

Using the equation (1), we get

$$(18)^2 = x^2 + x^{-2} + 2$$

$$x^2 + x^{-2} = 324 - 2 = 322$$

Question 63 :

The table given below shows the number of pencils sold by 7 shops. What is the ratio of the number of pencils sold by S3 to the number of pencils sold by S6?

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. 8 : 15
2. 13 : 7
3. 15 : 7
4. 7 : 13

Solution :

The correct answer is **option 4** i.e. **7: 13**.

Calculations:

Number of pencils sold by S3 = 70

Number of pencils sold by S6 = 130

Required ratio = 70 : 130 = 7 : 13

Question 64 :

If $x > 0$, and $x^4 + \frac{1}{x^4} = 2207$, what is the value of $x^7 + \frac{1}{x^7}$?

Difficulty : Moderate

Average Time : 39 Seconds

Options :

1. 710649
2. 710647
3. 710654
4. 710661

Solution :

The correct answer is **option 2** i.e. **710647**.

Formula used:

$$(a + b)^2 = a^2 + b^2 + 2ab \quad \text{---- (1)}$$

$$(a + b)^3 = a^3 + b^3 + 3ab(a + b) \quad \text{---- (1)}$$

Calculations:

According to the question;

$$x^4 + \frac{1}{x^4} + 2 = (x^2 + \frac{1}{x^2})^2$$

$$2207 + 2 = (x^2 + \frac{1}{x^2})^2$$

$$2209 = (x^2 + \frac{1}{x^2})^2$$

$$(x^2 + \frac{1}{x^2}) = 47$$

Similarly, we have

$$(x + \frac{1}{x})^2 = x^2 + \frac{1}{x^2} + 2$$

$$(x + \frac{1}{x})^2 = 47 + 2 = 49$$

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

Now using equation (2), we get

$$(x + \frac{1}{x})^3 = x^3 + \frac{1}{x^3} + 3(x + \frac{1}{x})$$

$$343 = x^3 + 1/x^3 + 21$$

$$x^3 + 1/x^3 = 322$$

$$\text{Hence, } x^7 + 1/x^7 = (x^3 + 1/x^3)(x^4 + 1/x^4) - (x + 1/x)$$

$$x^7 + 1/x^7 = (322)(2207) - 7 = 710647$$

Question 65 :

Which of the following two will provide more volume? I) A cuboid of edges 6 cm, 7 cm and 8 cm II) A cube of edge 7 cm

Difficulty : Moderate**Average Time : 95 Seconds****Options :**

1. Cube will have more volume
2. Both will have equal volume
3. Cuboid will have more volume
4. Cannot be determined

Solution :

The correct answer is **option 1** i.e. **Cube will have more volume.**

Formula used:

$$\text{Volume of cuboid} = l \times b \times h \quad \text{---- (1)}$$

$$\text{Volume of cube} = \text{side}^3 \quad \text{----- (2)}$$

Where, l = length, b = breadth and h = height

Calculations:

Using the equations (1) and (2),

$$\text{Volume of cuboid} = 6 \times 7 \times 8 = 336 \text{ cm}^3$$

$$\text{Volume of cube} = 7^3 = 343 \text{ cm}^3$$

Hence, the cube will have more volume.

Question 66 :

If $\sec 2A + \tan 2A = 4/17$, then $\sec 4A - \tan 4A$ is equal to:

Difficulty : Moderate**Average Time : 62 Seconds**

**Options :**

1. $3/17$
2. $13/17$
3. $4/17$
4. $9/17$

Solution :

The correct answer is **option 3** i.e. $4/17$.

Given:

$$\sec^2 A + \tan^2 A = 4/17$$

Formula used:

$$a^2 - b^2 = (a + b)(a - b) \quad \text{---- (1)}$$

$$\sec^2 A - \tan^2 A = 1$$

Calculations:

$\sec^4 A - \tan^4 A$ can be written as

$$\sec^4 A - \tan^4 A = (\sec^2 A + \tan^2 A)(\sec^2 A - \tan^2 A)$$

Hence, $\sec^4 A - \tan^4 A = 4/17$

Question 67 :

If $\sin(A + B) = \cos(A + B)$, what is the value of $\tan A$?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. $\frac{1 - \tan B}{1 + \tan B}$
2. $\frac{1 + \tan B}{1 - \tan B}$
3. $\frac{1 + \sec B}{1 - \sec B}$
4. $\frac{1 - \operatorname{cosec} B}{1 + \operatorname{cosec} B}$

Solution :

The correct answer is **option 1** i.e. $\frac{1 - \tan B}{1 + \tan B}$

Formula used:

$$\sin(A + B) = \sin A \cos B + \cos A \sin B \quad \text{---- (1)}$$

$$\cos(A + B) = \cos A \cos B - \sin A \sin B \quad \text{---- (2)}$$

Calculations:

According to the question;

$$\sin(A + B) = \cos(A + B)$$

Using equation (1) and (2), we get

$$\sin A \cos B + \cos A \sin B = \cos A \cos B - \sin A \sin B$$

$$\sin A \cos B + \sin A \sin B = \cos A \cos B - \cos A \sin B$$

$$\sin A(\cos B + \sin B) = \cos A(\cos B - \sin B)$$

$$\sin A/\cos A = (\cos B - \sin B)/(\cos B + \sin B)$$

$$\tan A = (1 - \tan B)/(1 + \tan B)$$

Question 68 :

If the diameter of a sphere is 63 cm, then what is the total surface area of the sphere?

Difficulty : Moderate

Average Time : 82 Seconds

Options :

1. 11824 cm^2

2. 12836 cm^2

3. 12474 cm^2

4. 11248 cm^2

Solution :

The correct answer is **option 3** i.e 12474 cm^2

Formula used:

$$\text{Total surface area of sphere} = 4r^2 \quad \text{---- (1)}$$

Calculations:

$$\text{Radius} = 63/2 = 31.5 \text{ cm}$$



Using equation (1), we get

$$\text{Total surface area of sphere} = 4 \times (22/7) \times 31.5 \times 31.5$$

$$12474 \text{ cm}^2$$

Question 69 :

A circular clock has an hour hand of length 6 inches. Find the length of the distance it covers by its tip from 9 p.m. to 3 a.m.

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 4 inch
2. 2 inch
3. 6 inch
4. 8 inch

Solution :

The correct answer is **option 3** i.e. **6 inch**.

Formula used:

$$\text{Perimeter of circle} = 2r$$

Calculations

$$\text{Radius} = 6$$

The distance covered by its tip from 9 p.m. to 3 a.m = half of the circle

The distance is covered only by the tip of the clock, it covers only the circular part

$$\text{Required length} = 2r/2 = r$$

$$6$$

Question 70 :

In the election, 8% of the voters did not cast their votes. Two candidates contested the election in which the winning candidate got 48% of the total votes and won the election by 1100 votes. Find the total number of voters in the election, given that all the votes cast were valid.

Difficulty : Moderate

Average Time : 61 Seconds

**Options :**

1. 25500
2. 26500
3. 27500
4. 28500

Solution :

The correct answer is **option 3** i.e. **27500**.

Calculations:

Let the total number of voters enrolled be $100x$

8% didn't vote, number of voters left = 92% of $100x = 92x$

Number of votes the winning candidate get = 48% of $100x = 48x$

The losing candidate = $100x - 8x - 48x = 44x$

According to the question;

$$48x - 44x = 1100$$

$$4x = 1100$$

$$x = 275$$

Hence, the total number of votes polled = $100x = 100 \times 275 = 27500$

Question 71 :

A mixture of milk and water measures 60 liters. It contains 10% water. How much water should be added to it, so that the water may be 25%?

Difficulty : Moderate**Average Time : 55 Seconds****Options :**

1. 18 litres
2. 14 litres
3. 16 litres
4. 12 litres

Solution :



The correct answer is **option 4** i.e. **12 litres**.

Calculations:

Total quantity of the mixture = 60 L

Amount of water = 10% of 60 = 6 L

Amount of milk = 60 - 6 = 54 L

If only water is added, milk quantity remains the same

Hence, 75% of milk = 54

25% of water = $54/3 = 18$

Amount of water to be added = $18 - 6 = 12$ litres

Question 72 :

If 6 women can complete a work in 3 days, and 9 girls can complete the same work in 2 days, then find the time taken to complete the same work by 8 women and 6 girls?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 3 days
2. 4 days
3. 6 days
4. 9/7 days

Solution :

The correct answer is **option 4** i.e. **9/7 days**.

Calculations:

Let the number of women and girls be x and y

According to the question;

$$6x \times 3 = 9y \times 2$$

$$x = y \text{ or } x/y = 1/1$$

Hence, total work = $6 \times 1 \times 3 = 18$



Required days = $18/(8 \times 1 + 6 \times 1) = 18/14 = 9/7$ days

Question 73 :

A hemispherical bowl made of iron has an inner diameter of 84 cm. Find the cost of tin plating it on the inside at the rate of 21rs per 100 cm² (take $= 22/7$) correct to two places of decimal.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. ₹12,328.48
2. ₹12,425.48
3. ₹12,425.60
4. ₹12,355.48

Solution :

The correct answer is **option 1** i.e. ₹12,328.48.

Formula used:

Curved surface area of hemisphere = $2r^2$

Calculations:

Inner Diameter = 84 cm

Inner Radius = $84/2$ cm = 42 cm

Using the above equation;

Curved surface area of the hemisphere = $2 \times 22/7 \times 42^2$

$$2 \times 22 \times 6 \times 42 = 11088 \text{ cm}^2$$

The cost of tin-plating 100 cm² of the bowl = Rs. 21

The cost of tin-plating 11088 cm² area of the bowl = $(21/100) \times 11088$

= Rs. 2,328.48

Hence, the cost of tin-plating is Rs. 2328.48

Question 74 :

By mistake, instead of dividing 702rs among Ram, Ramesh, and Naresh in the ratio $(\frac{1}{3}) : (\frac{1}{4}) : (\frac{1}{6})$, it was divided in the ratio of 3 : 4 : 6. Who gained the most and by how much?

**Difficulty : Moderate****Average Time : 62 Seconds****Options :**

1. Ram ₹,158
2. Ramesh ₹,158
3. Naresh ₹,168
4. Ram ₹,168

Solution :The correct answer is **option 3** i.e. **Naresh ₹,168****Calculations:**Original ratio of division of money = $\left(\frac{1}{3}\right) : \left(\frac{1}{4}\right) : \left(\frac{1}{6}\right)$

4 : 3 : 2

Original share of Ram, Ramesh, and Naresh was 4x, 3x and 2x

Share of ram = $(702/9x) \times 4x = 312$ Share of ramesh = $(702/9x) \times 3x = 234$ Share of Naresh = $(702/9x) \times 2x = 156$

By mistake the share is in the ratio of 3 : 4 : 6

Now, the share of Ram, Ramesh, and Naresh is 3y, 4y and 6y

Share of ram = $(702/13y) \times 3y = 162$ Share of ramesh = $(702/13y) \times 4y = 216$ Share of Naresh = $(702/13y) \times 6y = 324$ Hence we can see that naresh gained the most = $324 - 156 = 168$ **Question 75 :**

The pie chart given below shows the population of 8 cities in a year. Total population of all the 8 cities is 30,000.

Population in a particular city is shown as a percent of total population in all these 8 cities. What is the average population (approximately) of cities C3, C5 and C7?

Difficulty : Moderate**Average Time : 80 Seconds****Options :**

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1200

2. 1600

3. 1800

4. 2000

Solution :

The correct answer is **option 2** i.e. **1600**.

Calculations:

Sum of the percent of population of C3, C5 and C7 = $8 + 5 + 3 = 16\%$

Required average = $30000 \times (16/100) \times (1/3)$

1600

Question 76 :

What is the largest common divisor of the numbers 1026, 2268, and 2430?

Difficulty : Moderate

Average Time : 36 Seconds

Options :

1. 108

2. 54

3. 81

4. 27

Solution :

The correct answer is **option 2** i.e. **54**.

Concept used:

Largest common divisor is Highest common multiple

Calculations:

HCF of 1026, 2268, and 2430

Factors of 1026 = $2 \times 3 \times 3 \times 3 \times 19$

Factors of 2268 = $2 \times 2 \times 3 \times 3 \times 3 \times 3 \times 7$

Factors of 2430 = $3 \times 3 \times 3 \times 3 \times 3 \times 2 \times 5$

Hence, the common factors = $2 \times 3 \times 3 \times 3 = 54$

Therefore, the largest common divisor is 54.

Question 77 :

If the 4-digit number $x67y$ is exactly divisible by 9, then the least value of $(x + y)$ is _____.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 9
2. 0
3. 5
4. 3

Solution :

The correct answer is **option 3** i.e. **5**.

Concept used:

Divisibility rule of 9: If the sum of the digits are divisible by 9, then the number is divisible by 9

Calculations:

According to the question;

$$x + 6 + 7 + y = 9 \text{ or } 18 \text{ or } 27 \dots$$

Now least possible sum

$$x + 6 + 7 + y = 18$$

$$x + y + 13 = 18$$

$$x + y = 5$$

Question 78 :

Select the option that can be used as a one-word substitute for the given group of words. Plants of a particular region

Difficulty : Moderate

Average Time : 50 Seconds

Options :

Flora

2. Flinch
3. Fauna
4. Flotsam

Solution :

The correct answer is **option 1** i.e. **Flora**.

The meaning of the given words is:

- **Flora:** Refers to the plant life or vegetation of a particular region or ecosystem.
- **Flinch:** To make a sudden, involuntary movement as a result of fear, pain, or surprise.
- **Fauna:** Refers to the animal life of a particular region or ecosystem.
- **Flotsam:** Refers to the wreckage or debris of a ship or its cargo that is floating on the surface of the water. In a figurative sense, it can also refer to any debris or unwanted material that is left behind or discarded.

Thus, the most appropriate one word substitution for the given word is **Flora**.

Question 79 :

Select the most appropriate option to substitute the underlined segment in the given sentence. Abu said that he saw the picture.

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. he has seen the picture
2. he will have seen the picture
3. he would have seen the picture
4. No improvement

Solution :

The correct answer is **option 4** i.e. **No improvement**.

- The given sentence is in the reported speech or indirect speech form, where the speaker is reporting or conveying information that was spoken by someone else.
- The underlined segment in the sentence is the reporting verb "said that," which is commonly used to report statements.

Depending on the context and the type of information being reported, the reporting verb used is absolutely correct.

Thus, the correct sentence is:

Abu said that **he saw the picture**.

Question 80 :

Select the option that can be used as a one-word substitute for the given group of words. A shortened version of a larger work

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. Summary
2. Precise
3. Shorts
4. Abridgement

Solution :

The correct answer is **option 4** i.e. **Abridgement**.

The meaning of the given words is:

- **Abridgement**: the act of making a text or book shorter, while retaining its essential meaning and content.
- **Summary**: a summary is a shortened version of a longer text that contains only the most important and relevant information.
- **Precise**: a concise and clear summary of a written work, such as an article, essay, or book.
- **Shorts**: "Shorts" is a word with multiple meanings depending on the context. It can refer to a type of clothing that covers the lower part of the body and does not extend below the knees.

Thus, the most appropriate one word substitute for the given set of words is **Abridgement**.

Question 81 :

Complete the following collocation. I was running late so I only had time for a _____ shower.

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. quick



hasty

3. fast

4. short

Solution :

The correct answer is **option 1** i.e. **quick**.

- A collocation is a combination of words that often go together naturally in a language.
- In this sentence, the collocation is "quick shower," which means a brief or rapid shower that is done in a short period of time.
- "Hasty" and "fast" can both mean done quickly, but they have a negative connotation of being rushed or careless, which is not appropriate for the context of taking a shower.
- "Short" can also mean brief or not taking much time, but it does not specifically refer to the speed of the action. It could also mean that the shower itself is small or limited in some way.

Thus, the correct sentence is:

*I was running late so I only had time for a **quick** shower.*

Question 82 :

Select the correct active form of the given sentence. Her phone can't be switched off by my father.

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. My father switches off her phone.
2. My father could not switch off her phone.
3. My father have not switched off her phone.
4. My father can't switch off her phone.

Solution :

The correct answer is **option 4** i.e. **My father can't switch off her phone**.

To change a passive form of a sentence into an active form, the following rules are followed:

Identify the subject that performs the action. In this sentence, it is "my father."

- Use the subject as the grammatical subject of the sentence, followed by an appropriate verb. In this sentence, the appropriate verb is "cannot switch off."
- Use the original object of the passive sentence as the grammatical object of the active sentence. In this sentence, it is "her phone."
- Remove the preposition "by" that introduced the doer of the action in the passive sentence.

Thus, the correct active form of the given sentence is:

My father can't switch off her phone.

Question 83 :

Select the correct direct form of the given sentence. Shyam asked me how I had persuaded his sister.

Difficulty : Moderate

Average Time : 82 Seconds

Options :

1. "How are you persuading my sister?" Shyam asked me.
2. "How did you persuaded my sister?" Shyam asked me.
3. "How did you persuade my sister?" Shyam asked me.
4. "How have you persuade my sister?" Shyam asks me.

Solution :

The correct answer is **option 3** i.e. **"How did you persuade my sister?" Shyam asked me.**

To change an indirect form of a sentence into a direct form, the following rules are followed:

- Identify the reporting verb: Identify the verb that is used to report what someone said or asked. In this sentence, the reporting verb is "asked."
- Use a reporting clause: Begin the sentence with the reporting verb, followed by a reporting clause, such as "that" or "if." In this sentence, the reporting clause is "how I had persuaded his sister."
- So, the reporting verb "asked" can be followed by the reporting clause to form a reporting sentence, such as: "Shyam asked me how I had persuaded his sister."
- Remove the reporting clause and rewrite the sentence as a direct statement. In this sentence.
- To convert it into direct speech, you can use the same words but change the tense of the verb and make other

necessary changes to match the tense of the reporting verb.

Thus, the direct of the given sentence is:

"How did you persuade my sister?" Shyam asked me.

Question 84 :

Select the most appropriate option to fill in the blank. The interviewees were slowly becoming impatient as they were left to _____ in the waiting room for hours.

Difficulty : Moderate

Average Time : 105 Seconds

Options :

1. draw the long bow
2. cool their heels
3. hold water
4. flog a dead horse

Solution :

The correct answer is **option 2** i.e. **cool their heels**.

- "**Draw the long bow**" means to exaggerate or tell a tall tale, which does not make sense in this context.
- "**Hold water**" means to be valid or logical, which is not relevant to the situation of waiting in a waiting room.
- "**Flog a dead horse**" means to continue to pursue a goal or idea that is no longer achievable, which is not applicable to the situation of waiting in a waiting room either.
- The phrase "**cool their heels**" means to wait patiently and remain calm while waiting for something. In this sentence, the interviewees are waiting in the waiting room for hours, and they are becoming impatient.
- Therefore, the phrase "cool their heels" is the most appropriate option to fill in the blank.

Thus, the correct sentence is:

*The interviewees were slowly becoming impatient as they were left to **cool their heels** in the waiting room for hours.*

Question 85 :

The following sentence has been split into four segments. Identify the segment that contains a grammatical error. One can never imagine / how hot it gets in Delhi / unless one doesn't go / there in person.

Difficulty : Moderate

Average Time : 90 Seconds

Options :

1. One can never imagine
2. unless one doesn't go
3. how hot it gets in Delhi
4. there in person.

Solution :

The correct answer is **option 2** i.e **unless one doesn't go**.

- The segment that contains a grammatical error in the given sentence is "unless one doesn't go."
- The word "unless" is a conjunction that introduces a conditional clause expressing the negative condition. It means that if the condition in the clause is not met, the main clause will be valid.
- In this case, the main clause is "One can never imagine how hot it gets in Delhi," and the conditional clause is "unless one doesn't go there in person."
- However, the phrase "unless one doesn't go" contains a double negative, which makes the sentence grammatically incorrect. The use of "doesn't" and "unless" together creates a negative statement, which is contradictory to the intended meaning.
- To make the sentence grammatically correct, you can replace the segment with "unless one goes" or "unless one has gone." These alternatives do not contain a double negative and convey the intended meaning clearly.

Thus, the correct sentences could be:

- 1) *One can never imagine how hot it gets in Delhi unless one goes there in person.*
- 2) *One can never imagine how hot it gets in Delhi unless one has gone there in person.*

Question 86 :

Select the most appropriate ANTONYM of the word 'MOBILE' from the given sentence. The strange TV reporter standing over there covers all the funny and interesting things happening inside the town.

Difficulty : Moderate

Average Time : 104 Seconds

Options :

1. Standing



Interesting

3. Inside

4. Strange

Solution :

The correct answer is **option 1** i.e. **Standing**.

The meaning of the given words is:

- **Mobile:** Capable of being moved or easily moved from place to place; relating to or designed for use on the move.
- **Standing:** A person's social or professional status or reputation; the period of time during which someone holds a particular job, position, or status; remaining in existence or force without change.
- **Interesting:** Attractive, fascinating, or engaging; arousing curiosity or interest.
- **Inside:** The interior or inner part of something; situated within or on the inside.
- **Strange:** Unusual, unfamiliar, or unexpected in a way that is unsettling or difficult to understand; unusual or surprising enough to cause wonder or perplexity.

Thus, the most appropriate antonym for the given words is **Standing**.

Question 87 :

Select the most appropriate synonym of the given word. Exaltation

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. Dejection
2. Ecstasy
3. Satisfaction
4. Elaboration

Solution :

The correct answer is **option 2** i.e. **Ecstasy**.

The meaning of the given words is:



- Exaltation:** A feeling of extreme happiness or pride, usually brought about by a great achievement or success.
- **Ecstasy:** A state of intense joy, excitement, or happiness, often accompanied by a sense of transcendence or spiritual euphoria.
 - **Dejection:** A feeling of sadness, disappointment, or discouragement. It can be caused by a sense of failure, rejection, or loss, and is often characterized by a lack of energy or motivation.
 - **Satisfaction:** A feeling of contentment or fulfillment that comes from achieving a goal or fulfilling a desire.
 - **Elaboration:** The process of adding more detail or complexity to something, usually in order to explain or clarify it.

Thus, the most appropriate synonym for the given word is **Ecstasy**.

Question 88 :

The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P. Main source of water for Wular Lake is River Jhelum. Q. Wular Lake is also said to be a remnant of Satisar Lake that existed in ancient times. R. This lake also has a small island in its centre called the 'Zaina Lank'. S. This island was constructed by King Zainul-Abi-Din.

Difficulty : Moderate

Average Time : 91 Seconds

Options :

1. RPQS
2. PQRS
3. QSRP
4. QPRS

Solution :

The correct answer is **option 4** i.e. **QPRS**.

- The first sentence (Q) introduces the Wular Lake and its historical significance, establishing context for the rest of the paragraph.
- The second sentence (P) provides a crucial piece of information about the lake, which is that its main source of water is River Jhelum. This information is important because it helps to explain the origin and nature of the lake.
- The third sentence (R) describes a physical feature of the lake, namely the small island called the 'Zaina Lank' that is located in its center. This sentence provides additional detail about the lake's appearance and helps to paint a more complete picture of it.
- Finally, the fourth sentence (S) adds another historical element to the paragraph by explaining that the island was constructed by King Zainul-Abi-Din. This sentence reinforces the historical significance of the lake introduced in the



first sentence, bringing the paragraph full circle and adding a sense of closure.

Thus, the correct paragraph is:

Wular Lake is also said to be a remnant of Satisar Lake that existed in ancient times. The main source of water for Wular Lake is River Jhelum. This lake also has a small island in its center called the 'Zaina Lank'. This island was constructed by King Zainul-Abi-Din.

Question 89 :

Select the most appropriate ANTONYM of the given word. Oppose

Difficulty : Moderate

Average Time : 90 Seconds

Options :

1. Embody
2. Resist
3. Encourage
4. Elective

Solution :

The correct answer is **option 3** i.e. **Encourage**.

The meaning of the given words is:

- **Oppose:** disagree with and attempt to prevent, especially by argument.
- **Encourage:** give support, confidence, or hope to (someone).
- **Embody:** be an expression of or give a tangible or visible form to (an idea, quality, or feeling).
- **Resist:** withstand the action or effect of.
- **Elective:** related to or working by means of election.

*Thus, the most appropriate antonym for the given word is **Encourage**.*

Question 90 :

Select the most appropriate ANTONYM of the underlined word. Technology plays an indispensable role in the lives of human beings in the 21st century.

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. Superfluous



Relentless

3. Vigilant

4. Unprecedented

Solution :

The correct answer is **option 1** i.e. **Superfluous**.

The meaning of the given words is:

- **Indispensable** - This word refers to something or someone that is essential, necessary, or cannot be done without. For example, "Water is indispensable for life."
- **Superfluous** - This word refers to something that is unnecessary, redundant, or excessive.
- **Relentless** - This word refers to something that is persistent, unyielding, or continuous.
- **Vigilant** - This word refers to someone who is watchful, alert, and careful to detect any danger or threat.
- **Unprecedented** - This word refers to something that has never been done before or is without precedent or parallel.

Question 91 :

A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative. When there are negative and toxic thoughts _____ your mind, you can never think positively.

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. plotting
2. shouting
3. clouding
4. persuading

Solution :

The correct answer is **option 3** i.e. **clouding**.

- In the given sentence, the blank needs to be filled with a verb that can describe the action of negative and toxic thoughts affecting one's ability to think positively.
- Here, "clouding" is a present participle verb that functions as an adjective and modifies the noun "thoughts".
- The phrase "clouding your mind" describes the action of negative and toxic thoughts obscuring or making it difficult to think clearly and positively.
- The sentence uses a present participle verb form to express the ongoing nature of this action.



The correct option to fill in the blank would be "clouding", making the sentence:

"When there are negative and toxic thoughts **clouding** your mind, you can never think positively."

Question 92 :

Select the most appropriate meaning of the given idiom. Break the ice

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. Make people meeting first time feel uncomfortable
2. Make people meeting first time feel sad
3. Make people meeting first time feel more detached
4. Make people meeting first time feel more comfortable

Solution :

The correct answer is **option 4** i.e. **Make people meeting first time feel more comfortable.**

- The idiom "break the ice" means to initiate or start a conversation or a relationship with someone in order to overcome initial tension or awkwardness.

Thus, the most appropriate choice among the given options is **Make people meeting first time feel more comfortable.**

Question 93 :

Select the option that expresses the given sentence in active voice. The wounded man was being helped by a few men.

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. The wounded man had been helped by a few men.
2. A few men were helping the wounded man.
3. The wounded man was helping a few men.
4. A few men are helping the wounded man.

Solution :

The correct answer is **option 2** i.e. **A few men were helping the wounded man.**

To convert the given sentence from passive to active voice, you can follow these general rules:



- Identify the subject of the sentence (the person or thing doing the action).
- Change the object of the sentence (the person or thing receiving the action) into the subject of the sentence.
 - Use the appropriate form of the verb "to be" as an auxiliary verb (e.g., "is", "was", "has been", etc.) in the same tense as the original sentence.
 - Use the past participle of the main verb in the original sentence as the main verb in the active sentence.
 - Add any necessary prepositions or articles.

The active form of the given sentence would be:

A few men were helping the wounded man.

Question 94 :

Choose the incorrectly spelt word.

Difficulty : Moderate

Average Time : 79 Seconds

Options :

1. Benign
2. Mortifeid
3. Insecurities
4. Dismay

Solution :

The correct answer is **option 2** i.e. **Mortifeid**.

The correct spelling and meaning of the given words is:

- **Benign:** kind or gentle in nature, not harmful or malignant.
- **Mortified:** extremely embarrassed or humiliated, ashamed.
- **Insecurities:** feelings of self-doubt, lack of confidence, or uncertainty about oneself or a situation.
- **Dismay:** a feeling of distress, disappointment, or unhappiness caused by something unexpected or unpleasant (e.g., The news of her friend's illness filled her with dismay).

Question 95 :

Rearrange the parts of the sentence in correct order. The continued P. the growing sales of sneakers Q. dominance of the athleisure trend R. along with the pursuit of comfort S. has had a significant impact on

Difficulty : Moderate

Average Time : 61 Seconds

Options :

PSRQ

2. RPSQ

3. QRPS

4. QSPR

Solution :

The correct answer is **option 4** i.e. **QSPR**.

A possible correct order of the given parts of the sentence is:

Q. Dominance of the athleisure trend

R. Along with the pursuit of comfort,

S. has had a significant impact on

P. the growing sales of sneakers.

- In this rearranged sentence, the subject "dominance of the athleisure trend" is placed at the beginning of the sentence, followed by a dependent clause "along with the pursuit of comfort" that describes the subject.
- The verb "has had" is placed after the dependent clause to form the main predicate, followed by the direct object "a significant impact on" to complete the main clause.
- Finally, the object "the growing sales of sneakers" is placed at the end of the sentence to complete the thought.

Thus, the correct sentence is:

Dominance of the athleisure trend. Along with the pursuit of comfort, has had a significant impact on the growing sales of sneakers.

Comprehension :

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. All drivers are affected by road rage, whether they are directly or indirectly (1)_____. Individual coping qualities (2)_____ the behaviour of stressful drivers. Instead of being enraged over circumstances beyond their control, drivers (3)_____ learn to be patient. On the road, we must be (4) _____ to control our own emotions. Road raged drivers are also more likely to (5) _____ more traffic offences.

Question 96 :

Select the most appropriate option to fill in blank number 1.

Difficulty : Moderate

Average Time : 103 Seconds



Options :

1. involves
2. involving
3. involved
4. involve

Solution :

The correct answer is **option 3** i.e. **involved**.

- The verb "involved" is in the past participle form, which is used here to describe the state of the drivers.
- The subject "all drivers" is the actor in the sentence, and the verb "are affected" is the linking verb that connects the subject to the predicate.
- The prepositional phrase "by road rage" describes the cause of the effect.
- Finally, the adverbial clause "whether they are directly or indirectly involved" describes the nature of the involvement of the drivers.
- It is important to note that the use of the past participle form of the verb "involve" is appropriate in this context because it indicates that the drivers have already been affected by road rage in some way, either directly or indirectly.

Thus, the correct sentence is:

*"All drivers are affected by road rage, whether they are directly or indirectly **involved**."*

Comprehension :

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. All drivers are affected by road rage, whether they are directly or indirectly (1)_____. Individual coping qualities (2)_____ the behaviour of stressful drivers. Instead of being enraged over circumstances beyond their control, drivers (3)_____ learn to be patient. On the road, we must be (4) _____ to control our own emotions. Road raged drivers are also more likely to (5) _____ more traffic offences.

Question 97 :

Select the most appropriate option to fill in blank number 2.

Difficulty : Moderate

Average Time : 98 Seconds

Options :

1. influence
2. apply



increases

4. multiply

Solution :

The correct answer is **option 1** i.e. **influence**.

- The subject "individual coping qualities" is the actor that exerts influence on the behavior of drivers.
- The verb "influence" is in the present tense to indicate that the action is ongoing or habitual.
- The direct object "the behavior of stressful drivers" describes the target of the influence.

The completed sentence would be:

"Individual coping qualities influence the behavior of stressful drivers."

Comprehension :

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. All drivers are affected by road rage, whether they are directly or indirectly (1)_____. Individual coping qualities (2)_____ the behaviour of stressful drivers. Instead of being enraged over circumstances beyond their control, drivers (3)_____ learn to be patient. On the road, we must be (4) _____ to control our own emotions. Road raged drivers are also more likely to (5) _____ more traffic offences.

Question 98 :

Select the most appropriate option to fill in blank number 3.

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. must
2. can
3. ought
4. to

Solution :

The correct answer is **option 1** i.e. **must**.

- The subject "drivers" is being advised or instructed to learn a new behavior.
- The modal verb "should" is used to express the idea of advice or recommendation.
- The main verb "learn" is in the base form, which is used after a modal verb to express obligation, advice, or recommendation.
- The prepositional phrase "to be patient" is the object of the verb "learn" and describes the desired behavior.

The correct modal verb to use in this sentence is "should."

The completed sentence would be:

"Instead of being enraged over circumstances beyond their control, drivers should learn to be patient."

Comprehension :

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. All drivers are affected by road rage, whether they are directly or indirectly (1)_____. Individual coping qualities (2)_____ the behaviour of stressful drivers. Instead of being enraged over circumstances beyond their control, drivers (3)_____ learn to be patient. On the road, we must be (4) _____ to control our own emotions. Road raged drivers are also more likely to (5) _____ more traffic offences.

Question 99 :

Select the most appropriate option to fill in blank number 4.

Difficulty : Moderate

Average Time : 87 Seconds

Options :

1. brave
2. consistent
3. able
4. oblige

Solution :

The correct answer is **option 3** i.e. **able**.

- The subject "we" is being described as having a certain quality, which is the ability to control our own emotions.
- The adjective "able" is used to express this quality.
- The verb "must" is used to express obligation or necessity, indicating that it is important for drivers to have this ability.
- The prepositional phrase "on the road" provides context for the sentence.

Thus, the correct sentence is:

*On the road, we must be **able** to control our own emotions.*

Comprehension :

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. All drivers are affected by road rage, whether they are directly or indirectly (1)_____. Individual coping qualities (2)_____ the behaviour of stressful drivers. Instead of being enraged over

circumstances beyond their control, drivers (3)_____ learn to be patient. On the road, we must be (4) _____ to control our own emotions. Road raged drivers are also more likely to (5) _____ more traffic offences.

Question 100 :

Select the most appropriate option to fill in blank number 5.

Difficulty : Moderate**Average Time : 81 Seconds****Options :**

1. drag
2. reflect
3. incur
4. proceed

Solution :

The correct answer is **option 3** i.e. **incur**.

- Out of the options "drag," "reflect," "incur," and "proceed," only "incur" fits the context correctly.
- "Incur" means "to become subject to something unpleasant as a result of one's own behavior or actions."

Therefore, the completed sentence is:

*"Road raged drivers are also more likely to **incur** more traffic offences."*

Ssc Cgl Tier I Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2022-12-02 in the Morning exam is as follows:

1. 98 questions were moderate.
2. The safe score is 140 marks.
3. 23 questions were asked from General Awareness, 25 questions were asked from Quantitative Aptitude, 25 questions were asked from English Language and 25 questions were asked from Logical Reasoning
4. 43 questions should have been skipped if you were short of time.

Ssc Cgl Tier I Previous Year Question Paper Topic Wise Weightage



General Awareness

1. Geography - 2
2. GK Misc - 20
3. Art And Culture - 1

Quantitative Aptitude

1. Percentage - 1
2. Data Interpretation - 4
3. Time And Work - 1
4. Time Speed And Distance - 1
5. Interest - 1
6. Ratios And Proportion - 1
7. Geometry - 1
8. Trigonometry - 2
9. Mensuration - 4
10. Algebra - 4
11. Number System - 2
12. Mixtures And Alligations - 1
13. Profit And Loss - 2

English Language

1. Cloze Test - 5
2. Spotting Error - 1
3. Parajumbles - 1
4. Sentence Jumbles - 1
5. Idioms - 1
6. One Word Substitution - 2
7. Narration - 1
8. Voice - 2
9. Sentence Improvement - 2
10. Synonym - 1
11. Antonym - 3
12. Filler (Vocab) - 1
13. Filler (Grammar) - 2
14. Incorrectly Spelt - 2

Incorrectly Spelt - 2

Logical Reasoning

1. Coding Decoding - 1
2. Analogy - 5
3. Classification - 2
4. Blood Relations - 2
5. Syllogism - 2
6. Dictionary Based - 1
7. Figure Based - 4
8. Series - 3
9. Mathematical Reasoning - 3
10. Image Series - 1
11. Seating Arrangement And Puzzle - 1

Ssc Cgl Tier I Previous Year Question Paper Tips and Tricks



1. Try to solve Ssc Cgl Tier I Previous Year Question Paper without taking any help from the solutions.
2. Ssc Cgl Tier I Previous Year Question Paper require proper usage of concept so firstly read the question thoroughly and then use the right concept.
3. In case you're not able to solve the question in less than 30 seconds in the exam then you should skip the question and move to the next question.

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