

# 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 2022-04-18 in the Evening 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 :

Select the option in which the given figure is embedded (rotation is NOT allowed).

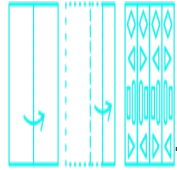
Difficulty : Moderate

Average Time : 42 Seconds

### Options :

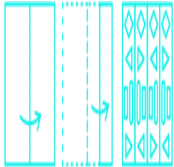
- 
- 1.
- 2.
- 3.
- 4.

### Solution :



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

The given figure is embedded in option 3, as shown below:



### Question 2 :

Select the correct combination of mathematical signs that can sequentially replace the \* signs and make the given equation correct.  $63 * 90 * 42 * 230 * 46 * 3$

Difficulty : Moderate

Average Time : 63 Seconds

### Options :

1. =, x, +, ÷, -
2. +, ÷, -, =, x
3. =, -, +, ÷, x
4. x, ÷, =, -, +

### Solution :

The correct answer is **option 3** i.e. =, -, +, ÷, x.

**Given equation:**  $63 * 90 * 42 * 230 * 46 * 3$

Let us check all the options:

**Option 1:** =, x, +, ÷, -

The expression becomes:

$$= 63 = 90 \times 42 + 230 \div 46 - 3$$

$$= 3782 \text{ is not equal to } 63.$$

**Option 2:** +, ÷, -, =, x

The expression becomes:

$$= 63 + 90 \div 42 - 230 = 46 \times 3$$

$$= -164.85 \text{ is not equal to } 138.$$

**Option 3:** =, -, +, ÷, ×

The expression becomes:

$$= 63 = 90 - 42 + 230 \div 46 \times 3$$

$$= 635 \text{ is equal to } 63.$$

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

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

### Question 3 :

Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series. d

\_ a \_ b \_ q d h \_ a \_ c q \_ h \_ a \_ c q

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. h a c a b d a b
2. h a b a b d a b
3. h a c a b d q b
4. h a q a b d a b

### Solution :

The correct answer is **option 1** i.e. **h a c a b d a b**.

The sequence is – **h a c a b d a b**

Given sequence: d \_ a \_ b \_ q d h \_ a \_ c q \_ h \_ a \_ c q

**Option 1:** h a c a b d a b

d h a a b c q / d h a a b c q / d h a a b c q

Option 1 forms a particular pattern.

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

### Question 4 :

At the time of sunset, Lopa and Kritika are sitting facing each. If the shadow of Lopa falls to the right of Kritika, in which

direction is Kritika facing?

Difficulty : Moderate

Average Time : 72 Seconds

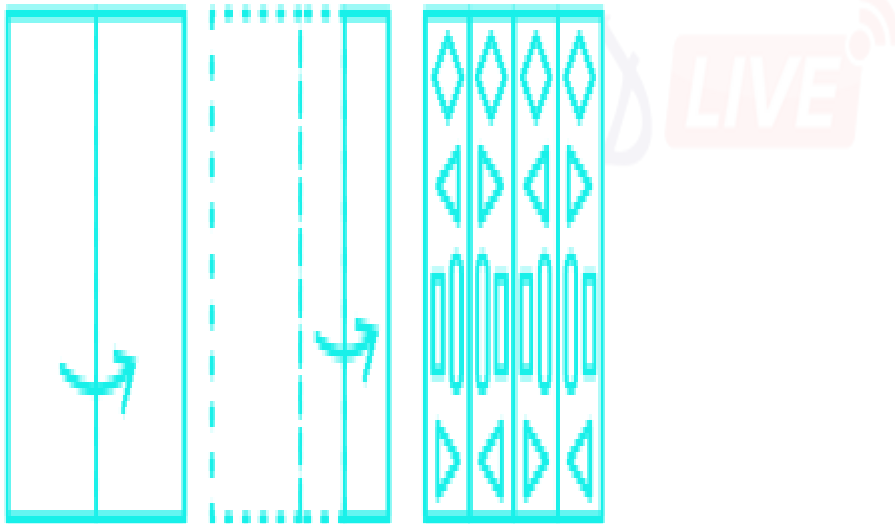
Options :

1. South
2. North
3. East
4. West

Solution :

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

Using the above information we can draw the following diagram:



From the figure, Kritika is facing the North direction.

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

Question 5 :

In a certain code language, 'BHOPAL' is coded as '6-24-45-48-3-36', and 'IMPHAL' is coded as '27-39-48-24-3-36'. How will 'KOHIMA' be coded in that language?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

22-30-27-24-39-6

2. 33-45-24-27-39-3

3. 33-30-24-18-39-9

4. 22-45-24-18-26-3

### Solution :

The correct answer is **option 2** i.e. **33-45-24-27-39-3**.

The logic used here is:

'BHOPAL' is coded as '6-24-45-48-3-36'

$$B = 2 \times 3 = 6$$

$$H = 8 \times 3 = 24$$

$$O = 15 \times 3 = 45$$

$$P = 16 \times 3 = 48$$

$$A = 1 \times 3 = 3$$

$$L = 12 \times 3 = 36$$

Similarly;

Code for the word KOHIMA:

$$K = 11 \times 3 = 33$$

$$O = 15 \times 3 = 45$$

$$H = 8 \times 3 = 24$$

$$I = 9 \times 3 = 27$$

$$M = 13 \times 3 = 39$$

$$A = 1 \times 3 = 3$$

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

### Question 6 :

If  $A = 10^\circ$ , what is the value of:

Difficulty : Moderate

Average Time : 62 Seconds

**Options :**

1.  $\frac{6\sqrt{2} + 5}{(9 - 2\sqrt{2})}$
2.  $\frac{6\sqrt{2} - 5}{(9 - 2\sqrt{2})}$
3.  $\frac{(9 - 2\sqrt{2})}{6\sqrt{2} + 5}$
4.  $\frac{6\sqrt{2} + 5}{(9 + 2\sqrt{2})}$

**Solution :**

The correct answer is **option 1** i.e.  $\frac{6\sqrt{2} + 5}{(9 - 2\sqrt{2})}$

**Calculations:**

Let us take value of A be  $10^\circ$

$$\left(\frac{12 \sin 30 + 5 \cos(50 - 5)}{9 \sin 45 - 4 \cos(50 + 10)}\right)$$

$$\left(\frac{12 \sin 30 + 5 \cos 45}{9 \sin 45 - 4 \cos 60}\right)$$

$$\left(\frac{12 \times 1/2 + 5 \times 1/\sqrt{2}}{9/\sqrt{2} - 4 \times 1/2}\right)$$

$$\left(\frac{6 + 5/\sqrt{2}}{9/\sqrt{2} - 2}\right)$$

$$\left(\frac{6\sqrt{2} + 5}{9 - 2\sqrt{2}}\right)$$

**Question 7 :**

Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary. 1. Likelihood 2. Likenesses 3. Likewise 4. Likens 5. Likeliest

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

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

**Solution :**

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

In this question, you need to arrange the words in the order in which they appear in an English dictionary.

1. Likeliest
2. Likelihood
3. Likenesses
4. Likens
5. Likewise

**Question 8 :**

Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.

Difficulty : Moderate

Average Time : 41 Seconds

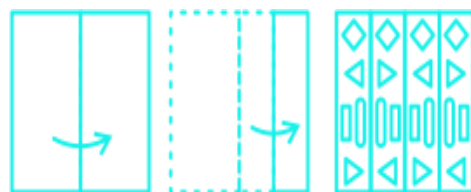
**Options :**

- 1.
- 2.
- 3.
- 4.

**Solution :**

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

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 4** is the correct answer.

**Question 9 :**

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

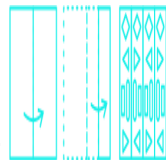
Difficulty : Moderate

Average Time : 74 Seconds

Options :

- 1.
- 2.
- 3.
- 4.

Solution :



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

Question 10 :

What would be the ratio of the areas of two circles, i.e. Circle-A and Circle-B, the radius of which are 4 cm and 8 cm, respectively?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 1: 2
2. 1: 16
3. 1: 8



1: 4

**Solution :**

The correct answer is **option 4** i.e. **1: 4**.

Area of circle =  $r^2$ ; =  $22/7$

Area of circle A =  $4^2$

Area of circle B =  $8^2$

Ratio of area of circle A to circle B =  $16/64 = 1: 4$

**Question 11 :**

If 'A' denotes 'addition', 'B' denotes 'multiplication', 'C' denotes 'subtraction', and 'D' denotes 'division', then what will be the value of the following expression? 441 D 7 A 21 B 6 C (189 D 7) A (46 C 12)

**Difficulty : Moderate****Average Time : 50 Seconds****Options :**

1. 158
2. 169
3. 196
4. 185

**Solution :**

The correct answer is **option 3** i.e. **196**.

**Given equation:** 441 D 7 A 21 B 6 C (189 D 7) A (46 C 12)

Given conditions: A +; B ×; C -; D ÷

After replacing the expression becomes:

$$= 441 \div 7 + 21 \times 6 - (189 \div 7) + (46 - 12)$$

$$= 441 \div 7 + 21 \times 6 - 27 + 34$$

$$= 63 + 21 \times 6 - 27 + 34$$

$$= 63 + 126 - 27 + 34$$

$$= 196$$



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

**Question 12 :**

Four letter clusters have been given, out of which three are alike in some manner and one is different. Select the letter cluster that is different.

Difficulty : Moderate

Average Time : 53 Seconds

**Options :**

1. FCHP
2. JGLS
3. WTYF
4. NKPW

**Solution :**

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

The logic used here is:

1st letter - 3 = 2nd letter

2nd letter + 5 = 3rd letter

3rd letter + 7 = 4th letter

**Option 1: FCHP**

F - 3 = C

C + 5 = H

H + 7 = O

This does not follow the logic.

Hence, **option 1** is the odd one out.

**Question 13 :**

Study the given pattern carefully and select the number that can replace the question mark (?) in it. 60 152 161 14 18 17 15 19 ?

Difficulty : Moderate

Average Time : 49 Seconds

**Options :**

23

2. 13

3. 19

4. 7

**Solution :**

The correct answer is **Option 1** i.e. **23**

The logic used here is:

**Column 1:**  $15 \times (14 - 10) = 15 \times 4 = 60$

**Column 2:**  $19 \times (18 - 10) = 19 \times 8 = 152$

**Column 3:**  $a \times (17 - 10) = a \times 7 = 161$

$a = 23$

Hence, the correct answer is **23**.

**Question 14 :**

Jahnvi is the sister of Taruni. Taruni is married to Dilip. Dilip is the father of Raghu. Manoj is the son of Hema. Taruni is the mother-in-law of Hema. Dilip has only one son and no daughter. Jahnvi is married to Barun. Lekha is the daughter of Barun. How is Jahnvi's sister related to Manoj's paternal grandfather?

**Difficulty :** Moderate

**Average Time :** 56 Seconds

**Options :**

1. Sister

2. Wife

3. Mother-in-law

4. Mother

**Solution :**

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

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, Jahnvi's sister is the wife of Manoj's paternal grandfather.

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

### Question 15 :

Select the number from among the given options that can replace the question mark (?) in the following series. 2, 6, 10, 17, 52, 94, 472, ?

Difficulty : Moderate

Average Time : 55 Seconds

### Options :

1. 763
2. 861
3. 816
4. 736

### Solution :

The correct answer is **option 2** i.e. **861**.

### Question 16 :

In a certain code language, 'TEDIOUS' is written as 'HAMKWPY'. How will 'PROFUSE' be written in that language?

Difficulty : Moderate

Average Time : 32 Seconds

### Options :

1. IBSLVOY
2. AJLSOVY
3. IBLSNXY
4. BISLOYV

### Solution :

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



The logic used here is:

'TEDIOUS' is written as 'HAMKWPY'

First, arrange the word TEDIOUS in alphabetical order.

TEDIOUS = DEIOSTU

D + 4 = H

E - 4 = A

I + 4 = M

O - 4 = K

S + 4 = W

T - 4 = P

U + 4 = Y

Similarly;

Code for the word PROFUSE':

PROFUSE = EFOPRSU

E + 4 = I

F - 4 = B

O + 4 = S

P - 4 = L

R + 4 = V

S - 4 = O

U + 4 = Y

PROFUSE = IBSLVOY

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

### Question 17 :

In the following Venn diagram, the hexagon stands for 'captains', the triangle stands for 'girls', the rectangle stands for 'toppers', and the circle stands for 'social activists'. The given numbers represent the number of persons in that particular category. How many girls are toppers and captains also?

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. 13

2. 15

3. 15

4. 17

Solution :

The correct answer is **option 1** i.e. **13**.

The number of girls who are toppers and captains also = Numbers that are common in triangles, rectangles, and hexagons  
 $= 8 + 5 = 13$

Question 18 :

Select the letter cluster from among the given options that can replace the question mark (?) in the following series. GKH, DNL, WQO, TTS, GWH, ?

Difficulty : Moderate

Average Time : 38 Seconds

Options :

1. KYP

2. DZL

3. KZO

4. FYP

Solution :

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

Given series: GKH, DNL, WQO, TTS, GWH, ?

The series follows this pattern:

GKH, DNL

$G - 3 = D$

$K + 3 = N$

$H + 4 = L$

WQO, TTS

G - 3 = T

Q + 3 = T

O + 4 = S

Similarly;

GWH,?

G - 3 = D

W + 3 = Z

H + 4 = L

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

**Question 19 :**

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 from the statements. Statements: Some lions are tigers. All tigers are leopards. All lions are animals. Conclusions: I. Some animals are leopards. II. Some leopards are lions. III. Some animals are tigers.

Difficulty : Moderate

Average Time : 68 Seconds

**Options :**

1. Only conclusions II and III follow.
2. Only conclusions I and III follow.
3. All conclusions I, II, and III follow.
4. Only conclusions I and II follow.

**Solution :**

The correct answer is **option 3** i.e. **All conclusions I, II, and III follow**.

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

**Conclusions:**

- I. Some animals are leopards **True** (As some lions are tigers, all tigers are leopards, and all lions are animals, so, some animals are leopards.)
- II. Some leopards are lions **True** (As some lions are tigers, all tigers are leopards, so, some leopards are also lions.)
- III. Some animals are tigers **True** (As all lions are animals, some lions are tigers, so some animals are tigers.)

Hence, **All conclusions I, II, and III follow.**

**Question 20 :**

Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'. They each listened carefully to what each other said.

Difficulty : Moderate

Average Time : 81 Seconds

**Options :**

1. each another
2. No improvement required
3. the other
4. one another

**Solution :**

The correct answer is **option 3** i.e. **the other**.

- In the above sentence '**each**' is used already in the beginning of the sentence and hence, cannot be used again.
- Hence, '**each other**' will be replaced by '**the other**'.

Hence the correct sentence is-

They each listened carefully to what **the other** said.

**Question 21 :**





Select the most appropriate meaning of the given idiom. Keep someone at arm's length

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Restrict someone to a small space to stand
2. Allow someone to talk only from a distance
3. Make someone stay outside
4. Avoid being friendly with someone

Solution :

The correct answer is **option 4** i.e. **Avoid being friendly with someone.**

- The meaning of the above idiom is '**not allowing someone to become friendly**'.

Hence, the correct answer is-

**Avoid being friendly with someone.**

Question 22 :

A cube of side 12 cm is painted green on all the faces and then cut into smaller cubes of sides 2 cm each. Find the number of smaller cubes that have only one face painted.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. 68
2. 96
3. 78
4. 49

Solution :

The correct answer is **option 2** i.e. **96.**

A cube of side 12 cm is painted green on all the faces and then cut into smaller cubes of sides 2 cm each. So, length of each smaller cube =  $12 / 2 = 6$

So, the number of smaller cubes having only one face painted =  $6(\text{Smaller cube length} - 2)^2 = 6(6 - 2)^2 = 6(16) = 96$

Question 23 :



Select the number from among the given options that can replace the question mark (?) in the following series. 578, 577, 568, 543, ?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. 528
2. 518
3. 532
4. 494

Solution :

The correct answer is **option 4** i.e. **494**.

Given series: 578, 577, 568, 543, ?

The series follows this pattern:

$$578 - 1^2 = 578 - 1 = 577$$

$$577 - 3^2 = 577 - 9 = 568$$

$$568 - 5^2 = 568 - 25 = 543$$

$$543 - 7^2 = 543 - 49 = 494$$

So, the next term in the series is **494**.

Question 24 :

According to the 2011 Census of India, which of the following states has a population density of 17 persons per sq km?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Assam
2. Nagaland
3. Arunachal Pradesh
4. Sikkim

Solution :

The correct answer is **option 3** i.e. **Arunachal Pradesh**.

- The highest of the population density 2011 among the states of India having a statistics of 11,297 per square kilometre, the state of Arunachal Pradesh has the lowest record of population density having just 17 per square kilometre.
- The records of population density 2011 of India state that the density 2011 has increased from a figure of 324 to that of 382 per square kilometre, which is considerably higher than the average population density of the world 2011, which are 46 per square kilometre.

**Question 25 :**

Anamika, Gopal, Nischal, Vanmayi, Shresta, and Sripad are sitting in a straight line facing north. Nischal is to the immediate left of Gopal. Shresta is between Anamika and Sripad. Sripad is in second place from the right end. Four persons are sitting between Nischal and Vanmayi. If Gopal and Sripad interchange their positions, then who will be sitting between Vanmayi and Shresta?

Difficulty : Moderate

Average Time : 67 Seconds

**Options :**

1. Anamika
2. Gopal
3. Sripad
4. Nischal

**Solution :**

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

According to the question, the arrangement is as follows:



If Gopal and Sripad interchange their positions, then the new arrangement is;



From the above arrangement, Gopal will be sitting between Vanmayi and Shrestha.

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

**Question 26 :**

The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?

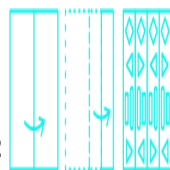
Difficulty : Moderate

Average Time : 61 Seconds

**Options :**

- 1.
- 2.
- 3.
- 4.

**Solution :**



The correct answer is **option 2**.

After unfolding, the paper will appear as follows:

**Question 27 :**

If 'sky' is called 'cloud', 'cloud' is called 'thunder', 'thunder' is called 'water', 'water' is called 'pot', 'pot' is called 'desert', and 'desert' is called 'sky', then where do fish live?

Difficulty : Moderate

Average Time : 65 Seconds

**Options :**

1. cloud
2. pot
3. water
4. desert

**Solution :**

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

The logic used here is:

Fish lives in water, and water is called the pot. So, fish lives in the pot.

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

**Question 28 :**

Select the option that is related to the third term in the same way as the second term is related to the first term.

PRACTISE: ACEIPRST:: TECHNOLOGY:?

Difficulty : Moderate

Average Time : 44 Seconds

**Options :**

1. HCETONYGLO
2. CEGHLNOPTY
3. CEGHLNOOTY
4. CEGLHOONTY

**Solution :**



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

The logic used here is:

PRACTISE: ACEIPRST

Arranged according to the increasing order in the English alphabetical series.

Similarly,

TECHNOLOGY:?

TECHNOLOGY = CEGHLNOOTY

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

**Question 29 :**

Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number. 16: 263:: 18:? :: 22: 491

Difficulty : Moderate

Average Time : 48 Seconds

**Options :**

1. 317
2. 361
3. 331
4. 340

**Solution :**

The correct answer is **option 3** i.e. **331**.

The logic used here is:

16: 263

$$16^2 + 7 = 256 + 7 = 263$$

22: 491

$$22^2 + 7 = 484 + 7 = 491$$

Similarly,

18:?

$$18^2 + 7 = 324 + 7 = 331$$

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

**Question 30 :**

The 40th Amendment Act of 1976 was applied to which Article of the Constitution of India?

**Difficulty : Moderate**

**Average Time : 41 Seconds**

**Options :**

1. 297
2. 248
3. 245
4. 226

**Solution :**

The correct answer is **option 1** i.e. **297**.

- Under article 297 of the Constitution, all lands, minerals and other things of value underlying the ocean within the territorial waters or the continental shelf of India vest in the Union to be held for the purposes of the Union
- . India has sovereign rights over the resources of the exclusive economic zone and is entitled to exercise jurisdiction in respect of certain other matters.
- It is proposed to amend article 297 of the Constitution so as to provide that all lands, minerals and other things of value underlying the ocean within the exclusive economic zone of India and all other resources of the exclusive economic zone of India shall also vest in the Union and be held for the purposes of the Union.

**Question 31 :**

What is the study of the production and propagation of sound waves called?

**Difficulty : Moderate**

**Average Time : 63 Seconds**

**Options :**

1. Optics
2. Photonics
3. Astrophysics
4. Acoustics

**Solution :**



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

- Acoustics is the study of sound in some mechanical form—whether in air or some other medium.
- Musicians are primarily concerned with the range of sound that is audible to humans.
- In the recording industry, the term “audio” generally refers to an electrical representation of an acoustic signal.

**Question 32 :**

Who among the following science fiction/ popular science writers wrote ‘2001 : A Space Odyssey’ and held the position of a Professor at the Physical Research Laboratory, Ahmedabad?

Difficulty : Moderate

Average Time : 51 Seconds

**Options :**

1. Isaac Asimov
2. Arthur C Clarke
3. Jules Verne
4. HG Wells

**Solution :**

The correct answer is **option 2** i.e. **Arthur C Clarke**.

- Director Stanley Kubrick picked Arthur C. Clarke out from contemporaries such as A.E. Van Vogt and Robert Heinlein to collaborate on the ground-breaking *2001: A Space Odyssey* (1968) in 1964, the English science fiction author was already perhaps the most influential futurist of the 20th century.
- For over sixty years Clarke produced ‘hard’ sci-fi novels and short stories that balanced a fertile speculative imagination with a characteristic scientific rigor.
- His work was informed by his background in mathematics and physics, and enriched by his professional association with the telecommunications and space industries of his era.

**Question 33 :**

India lost a large proportion of \_\_\_\_\_ growing area to Pakistan during partition.

Difficulty : Moderate

Average Time : 61 Seconds

**Options :**

1. sunflower
2. jute
3. soyabean





cotton

**Solution :**

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

- India lost a large proportion of cotton growing area to Pakistan during partition.
- Now, Cotton occupies about 4.7 per cent of the total cropped area in the country.
- There are three cotton-growing areas in India – (1) parts of Punjab, Haryana and northern Rajasthan in the north-west, (2) Gujarat and Maharashtra in the west and (3) plateaus of Telengana, Andhra Pradesh, Karnataka and Tamil Nadu in the south.

**Question 34 :**

The First Amendment Act of the Constitution of India came up in \_\_\_\_\_.

Difficulty : Moderate

Average Time : 50 Seconds

**Options :**

1. 1954
2. 1951
3. 1952
4. 1953

**Solution :**

The correct answer is **option 2** i.e. **1951**.

- Prime Minister Jawaharlal Nehru introduced a Bill to amend the Constitution. On May 18, 1951, the amendment Bill was referred to a Select Committee which considered the issue for six days.
- It guarantees freedom of expression by prohibiting Congress from restricting the press or the rights of individuals to speak freely.
- It also guarantees the right of citizens to assemble peaceably and to petition their government.

**Question 35 :**

'Ashtadhyayi', written by Sanskrit scholar Panini, is a book on \_\_\_\_\_.

Difficulty : Moderate

Average Time : 50 Seconds

**Options :**

1. medicine
2. law



economy

4. grammar

**Solution :**

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

- Ashtadhyayi, Sanskrit Ashtadhyayi is written in eight chapters, is a Sanskrit treatise on grammar.
- It was written in the 6th to 5th century BCE by the Indian grammarian Panini.
- Panini divided his work into eight chapters, each of which is further divided into quarter chapters.

**Question 36 :**

As per Economic Survey of India 2020-21, India is expected to have a Current Account Surplus of \_\_\_\_\_ of GDP in FY21.

**Difficulty : Moderate**

**Average Time : 49 Seconds**

**Options :**

1. 1%
2. 3%
3. 2%
4. 4%

**Solution :**

The correct answer is **option 3** i.e. **2%**.

- India is expected to have a Current Account Surplus of 2 per cent of GDP in FY21, a historic high after 17 years.
- India's real GDP to record a growth of 11 per cent in 2021-22 and nominal GDP by 15.4 per cent-the highest since independence.

**Question 37 :**

Which of the following is a dance form that originated in Assam?

**Difficulty : Moderate**

**Average Time : 43 Seconds**

**Options :**

1. Sattriya
2. Lavani
3. Gotipua

Chhau

**Solution :**

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

- Sattriya is a dance form that is more than 500 years old and comes from the Vaishnavite monasteries of Assam northeast India.
- Sattriya Nrityais a genre of dance drama that tells mythical and religious stories through hand and face expressions.
- Three categories of Sattriya performances include: *Nritta* – fast, rhythmic abstract dance; *Nritya* – slower, expressive dance that tells a story through movement and engages the emotions; *Natya* – a play that uses elements of nritya.

**Question 38 :**

Who among the following table tennis players won nine Senior National Championships as of April 2021?

**Difficulty :** Moderate

**Average Time :** 57 Seconds

**Options :**

1. Soumyajit Ghosh
2. Sujay Ghorpade
3. Sathiyar Gnanasekaran
4. A Sharath Kamal

**Solution :**

The correct answer is **option 4** i.e. **A Sharath Kamal**.

- Achanta Sharath Kamal has played table tennis at the top level for over 20 years.
- Sharath also won the singles gold after 16 years, the first coming at the 2006 Melbourne CWG.
- Kamal is the first Indian table tennis player ever to become nine times Senior National Champion hence breaking the record of eight times National Champion Kamlesh Mehta. As of May 2021, Kamal's ITTF world ranking is 32.
- He teamed up with Subhajit Saha to win the Men's Doubles gold at the 2010 Commonwealth Games in New Delhi. He won three medals in 2018 Commonwealth Games in Gold Coast.

**Question 39 :**

Which of the following is the study of insects and their relationship to humans, the environment, and other organisms?

**Difficulty :** Moderate

**Average Time :** 63 Seconds

**Options :**

1. Ornithology



### Entomology

3. Ethology

4. Mycology

#### Solution :

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

- Entomology is the study of insects and their relationship to humans, the environment, and other organisms.
- Reverend William Kirby is known the Father of Modern Entomology.
- The field of entomology often interacts with a wide range of scientific activities, ranging from ecology to biochemistry to anthropology to developmental biology.

#### Question 40 :

As per the press release dated September 2020 of the Government of India, what is the payment made by the Government of India at Minimum Support Price (MSP) rates in the last 6 years?

Difficulty : Moderate

Average Time : 51 Seconds

#### Options :

1. ₹,19 lakh crore
2. ₹,17 lakh crore
3. ₹,15 lakh crore
4. ₹,13 lakh crore

#### Solution :

The correct answer is **option 2** i.e. **₹,17 lakh crore**.

- The payment made at MSP rates in the last 6 years is Rs. 7 lakh crore which is double that made by the previous government.
- The Cabinet Committee on Economic Affairs (CCEA) chaired by the Prime Minister Shri Narendra Modi has approved the increase in the Minimum Support Prices (MSPs) for all mandated Rabi crops for marketing season 2021-22.
- The highest increase in MSP has been announced for lentil (Rs. 300 per quintal) followed by gram and rapeseed & mustard (Rs. 225 per quintal each) and safflower (Rs. 112 per quintal).

#### Question 41 :

Which of the following belongs to the family of 'Hominidae'?



Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Mango
2. Housefly
3. Wheat
4. Man

Solution :

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

- Males are larger than females. Hominids are the largest primates, with robust bodies and well-developed forearms.
- ominids have no tails; well developed forearms; five fingers and five toes; and except for humans, opposable thumbs and big toes.
- All hominids are omnivores. Female hominids usually give birth to a single baby and take care of it for a number of years.

Question 42 :

In the year \_\_\_\_\_, Indira Gandhi, the then Prime Minister of India, issued special stamps titled 'Wheat Revolution' to usher in the Green Revolution.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. 1987
2. 1975
3. 1943
4. 1968

Solution :

The correct answer is **option 4** i.e. **1968**.

- Indira Gandhi, the then Prime Minister, officially recorded the impressive strides of the Green Revolution in agriculture by releasing a special stamp entitled 'Wheat Revolution' in July 1968.
- The term Green Revolution was first coined by William Gaud.
- Norman Borlaug is considered as the Father of the Green Revolution.

Question 43 :

In October 2020, the Haryana Government launched a \_\_\_\_\_ under the Jal Jeevan Mission scheme.

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. mobile app to test pH level in water
2. mobile water testing laboratory
3. training programme to test water salinity
4. household water testing kit

Solution :

The correct answer is **option 2** i.e. **mobile water testing laboratory**.

- Announced on 15 August 2019, Jal Jeevan Mission (JJM) is being implemented in partnership with States to make provision of tap water supply in adequate quantity of prescribed quality with adequate pressure on a regular and long-term basis to every rural home by 2024.
- Haryana becomes 3rd state to get clean tap water in every rural household under Jal Jeevan Mission.
- Goa and Telangana are the two states which have already achieved this feat as part of the Centre's Jal Jeevan Mission.

**Question 44 :**

Who among the following was the founder of the Indian Association for the Cultivation of Science?

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. Ashutosh Mukhopadhyay
2. Mahendra Lal Sircar
3. Prafulla Chandra Roy
4. Jagadish Chandra Bose

Solution :

The correct answer is **option 2** i.e. **Mahendra Lal Sircar**.

- Mahendra Lal Sircar was the founder of the Indian Association for the Cultivation of Science where Nobel Laureate CV Raman and many other scientists started their scientific experiments.
- Mahendralal Sarkar the renowned physician who had the privilege of treating Sri Ramakrishna was not only a brilliant homeopath but was also a social reformer and an ardent propagator of science education and research.



He became a spiritualist after coming into contact with Sri Ramakrishna.

**Question 45 :**

Who among the following is the author of the book 'Mrs Funnybones'?

Difficulty : Moderate

Average Time : 55 Seconds

**Options :**

1. Rekha
2. Juhi Chawla
3. Twinkle Khanna
4. Sonali Bendre

**Solution :**

The correct answer is **option 3** i.e. **Twinkle Khanna**.

- Mrs Funnybones is a compilation of satirical stories written by Twinkle Khanna for various newspapers.
- Mrs Funnybones: She's Just Like You and a Lot Like Me is published by Penguin India.
- A few facts, a little fiction, a few decaying brain cells, and a couple of old bones into my brewing cauldron of words are the main characters in the book.

**Question 46 :**

What is the atomic mass of oxygen (expressed in 'u')?

Difficulty : Moderate

Average Time : 51 Seconds

**Options :**

1. 24
2. 8
3. 16
4. 32

**Solution :**

The correct answer is **option 3** i.e. **16**.

- The relative atomic mass of oxygen is 16.
- The atomic mass of an element is defined as the average of the isotopic masses, weighted according to the naturally occurring abundances of the isotopes of the element.

The mass of one atom of oxygen-16 is 1.33291 times the mass of one carbon-12 atom, the mass of one oxygen-16 atom should be equal to  $1.33291 \times 12 = 15.99492$  atomic mass units.

**Question 47 :**

How many protons are there in a lithium nucleus?

Difficulty : Moderate

Average Time : 47 Seconds

**Options :**

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

**Solution :**

The correct answer is **option 4** i.e. **3**.

- Lithium is the only stable light element which can produce net energy through fission.
- It's atomic number is 3 and melts at  $180.5^{\circ}\text{C}$ , boils  $1330^{\circ}\text{C}$ .
- It is the lightest metal and the least dense solid element (about half as dense as water).

**Question 48 :**

With reference to the administration of the Delhi Sultanate, which of the following was the Department of State Correspondence?

Difficulty : Moderate

Average Time : 45 Seconds

**Options :**

1. Diwan-i-arz
2. Diwan-i-khairat
3. Diwan-i-risalt
4. Diwan-i-insha

**Solution :**

The correct answer is **option 4** i.e. **Diwan-i-insha**.

- Diwan-i-insha was related to the Department of Correspondence under the Delhi Sultanate.
- Davir-i-Khas (Amir-Munshi) was the head of the department of diwan-i-insha.





All formal or confidential correspondence between the sultan and the rulers of other states or subordinate chiefs, governors, and officials was conducted by his department.

**Question 49 :**

Chandannagar was established as a French colony in 1673, obtaining permission from \_\_\_\_\_ the then Nawab of Bengal, to establish a trading post on the right bank of the river Hooghly.

**Difficulty : Moderate****Average Time : 50 Seconds****Options :**

1. Mansur Ali Khan
2. Murshid Quli Khan
3. Ibrahim Khan
4. Mir Zafar

**Solution :**

The correct answer is **option 3** i.e. **Ibrahim Khan**.

- Chandannagar was established as a French colony in 1673, obtaining permission from Ibrahim Khan, the then Nawab of Bengal, to establish a trading post on the right bank of the river Hooghly.
- It became a permanent French settlement in 1688. In 1730 Joseph Francois Dupleix was appointed governor of the city.
- In 1756 war broke out between France and Great Britain, and the British Navy captured Chandannagar on 23 March 1757.
- Chandernagore was restored to the French in 1763, but recaptured by the British in 1794.

**Question 50 :**

Which Article of the Constitution of India prohibits anyone from employing children below the age of fourteen in factories, mines, etc?

**Difficulty : Moderate****Average Time : 60 Seconds****Options :**

1. 23
2. 26
3. 24
4. 25

## Solution :

The correct answer is **option 3** i.e. **24**.

- Article 24 of the Constitution adopted in 1991, and amended in 2009, includes the following provisions:
  1. No young person shall be employed and shall in no case be caused or permitted to engage in any occupation or employment which would prejudice his health or education or interfere with his physical, mental or moral development.
  2. All young persons shall be protected against physical or mental ill-treatment, all forms of neglect, cruelty or exploitation.
  3. No young person shall be the subject of traffic in any form.
  4. In this Article "young person" means any person under the age of fifteen years.

## Question 51 :

The Open Hand Monument in Chandigarh was designed by \_\_\_\_\_.

Difficulty : Moderate

Average Time : 57 Seconds

## Options :

1. Matthew Nowicki
2. Maxwell Fry
3. Le Corbusier
4. Albert Mayer

## Solution :

The correct answer is **option 3** i.e. **Le Corbusier**.

- Le Corbusier (Charles-Edouard Jeanneret) is considered as the most important architect of the modern age.
- Villa Savoye is arguably Le Corbusier's most renowned work and a prime example of Modernist architecture.
- Le Corbusier is also known for his work in urban planning, which included the design of Chandigarh, India, in the 1950s.

## Question 52 :

Who among the following became the first Indian woman to score 10,000 runs in international cricket across all formats in March 2021?

Difficulty : Moderate

Average Time : 51 Seconds

## Options :

Mithali Raj

2. Jhulan Goswami

3. Priya Punia

4. Taniya Bhatia

### Solution :

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

- Mithali Raj is the woman with most runs in the game, and the only Indian captain - male or female - to have led the side to two 50-over World Cup finals, the only major distinction that eludes the incumbent ODI captain is the tag of a World Cup winner.
- At 16, Raj scored an unbeaten 114 on ODI debut and soon established herself as the lynchpin of India's batting.
- In October 2019, Raj, at 36, became the first woman to complete two decades in ODI cricket.

### Question 53 :

Which of the following does NOT come under the category of Public Goods?

Difficulty : Moderate

Average Time : 57 Seconds

### Options :

1. Government administration
2. Food items
3. National defence
4. Roads

### Solution :

The correct answer is **option 2** i.e. **Food items**.

- Public goods are commodities or services that benefit all members of society, and which are often provided for free through public taxation.
- The government plays a significant role in providing goods such as national defence, infrastructure, education, security, and fire and environmental protection almost everywhere. These goods are often referred to as "public goods".

### Question 54 :

Select the option that can be used as a one-word substitute for the given group of words. Unfairly take something belonging to another for one's use



Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Misconstrued
2. Misinterpret
3. Misappropriate
4. Misapprehend

Solution :

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

• The meaning of the options are as follows-

1. **Misconstrued**- to understand somebody's words or actions wrongly
2. **Misinterpret**- to understand something wrongly
3. **Misappropriate**- dishonestly or unfairly take (something, especially money, belonging to another) for one's own use.
4. **Misapprehend**- fail to understand (a person or their words) correctly.

Clearly, as per the meanings the correct answer is-

**Misappropriate.**

Question 55 :

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'. All the buses leaving between 10 p.m. and 5 a.m. has been cancelled.

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. No substitution required
2. were been cancelled
3. were cancelled
4. being cancelled

Solution :

The correct answer is **option 3** i.e. **were cancelled**.



An action that is over is **under simple past tense**.

- Hence, **has been cancelled** will be changed to **were cancelled**.

Hence, the correct sentence is-

All the buses leaving between 10 p.m. and 5 a.m. **were cancelled**.

**Question 56 :**

Select the most appropriate antonym of the given word. sober

Difficulty : Moderate

Average Time : 47 Seconds

**Options :**

1. straight
2. calm
3. drunk
4. unwell

**Solution :**

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

- The meaning of **Sober** is '**sensible**'.
- The meaning of the options are follows-

1. **straight**- with no bends or curves
2. **calm**- not excited
3. **drunk**- having drunk too much alcohol
4. **unwell**- sick

Clearly, as per the meanings the correct answer is-

**drunk**

**Question 57 :**

The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer. Aarav's mother / speaks four languages / fluently.

Difficulty : Moderate

Average Time : 60 Seconds

**Options :**



fluently

2. Aarav's mother
3. speaks four languages
4. No error

### Solution :

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

- There is no error in the sentence.
- Aarav's mother is singular hence singular verb is true, four languages are true as four is plural and fluently is an adverb that modifies 'speaks'.

Hence, the correct answer is-

**No error**

### Question 58 :

The following sentence has been split into segments. One of them may contain an error. Identify the segment that contains a grammatical error. If you don't find any error, mark 'No error' as your answer. I had all / the comforts to life / in my childhood.

Difficulty : Moderate

Average Time : 56 Seconds

### Options :

1. No error
2. the comforts to life
3. I had all
4. in my childhood

### Solution :

The correct answer is **option 2** i.e. **the comforts to life**.

- 'The comforts of life' mean 'the pleasantness of life'.
- The error is in 'comforts to life' as it will be changed to 'comforts of life'.

Hence, the correct sentence is-

I had all the comforts **of** life in my childhood.

### Question 59 :



Select the option that expresses the given sentence in passive voice. Most lizards rely on camouflage to hide from their enemies.

Difficulty : Moderate

Average Time : 52 Seconds

**Options :**

1. Camouflage has been relied on by most lizards to hide from their enemies.
2. Camouflage is relied on by most lizards to hide from their enemies.
3. Camouflage was relied on by most lizards to hide from their enemies.
4. Most lizards are being relied on by camouflage to hide from their enemies.

**Solution :**

The correct answer is **option 2** i.e. **Camouflage is relied on by most lizards to hide from their enemies.**

- In active voice the **subject performs the action.**
- In passive voice the **subject is acted upon by the verb.**
- The formula for present active voice is-

1. **subj+v1+object+remaining sentence**

- The formula to change this present active voice to present passive voice is-

1. **Obj(camouflage)+is/am/are+v3(reliedon)+by+object(most lizards).**

Hence the correct sentence is-

**Camouflage is relied on by most lizards to hide from their enemies.**

**Question 60 :**

Select the option that can be used as a one-word substitute for the given group of words. A problem that is so difficult that it cannot be answered

Difficulty : Moderate

Average Time : 77 Seconds

**Options :**

1. Impossible
2. Insolvable
3. Terrible
4. Solvable

**Solution :**

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

- The meaning of the options are as follows-
- 1. **Impossible**- not able to be done or to happen
- 2. **Insolvable**- incapable of being solved or explained
- 3. **Terrible**- very unpleasant
- 4. **Solvable**- susceptible of solution or of being solved

Hence, as per the above meanings the correct answer is-

**Insolvable****Question 61 :**

Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph. A. It coincided with the 140th birth anniversary of Sardar Vallabhbhai Patel. B. Through this innovative measure, the knowledge of the traditions and culture of different states is being shared. C. The initiative 'Ek Bharat Shreshtha Bharat' was launched by the Honourable Prime Minister on 31st October 2015. D. This will lead to an enhanced bonding and national integration.

Difficulty : Moderate

Average Time : 70 Seconds

**Options :**

1. CBDA
2. ADBC
3. ABCD
4. CABD

**Solution :**

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

- The starting sentence of a paragraph is a **general statement**. Hence, **C** will be the starting sentence as it tells **about the launch of the initiative by the Honourable PM**.
- The next sentence will be **A** as it tells that the launch of the initiative **coincided with the birth anniversary of Sardar Vallabhbhai Patel**.
- **A** will be followed by **B** as it talks the role that this initiative will play **in spreading the knowledge and cultures of different states**.
- The concluding sentence will be **D** as it tells that this will lead to **national integration**.

Hence, the correct paragraph is-





*The initiative 'Ek Bharat Shreshtha Bharat' was launched by the Honourable Prime Minister on 31st October 2015. It coincided with the 140th birth anniversary of Sardar Vallabhbhai Patel. Through this innovative measure, the knowledge of the traditions and culture of different states is being shared. This will lead to an enhanced bonding and national integration.*

**Question 62 :**

The following sentence has been split into four segments. Identify the segment that contains a grammatical error. What would / happen if / human beings were / govern by robots?

Difficulty : Moderate

Average Time : 87 Seconds

**Options :**

1. happen if
2. What would
3. govern by robots
4. human beings were

**Solution :**

The correct answer is **option 3** i.e. **govern by robots**.

- In active voice the **subject performs the action**.
- In passive voice the **subject is acted upon by the verb**.
- It is a case of **simple past passive voice**.

**1. Object +was/were+v3+by+subject**

- In the sentence above the subject is **human** which is acted upon by verb **govern**.
- Hence, **govern** will be changed to **governed**.

Hence the correct sentence is-

What would happen if human beings were **governed** by robots?

**Question 63 :**

Select the most appropriate meaning of the given idiom. To fight shy of

Difficulty : Moderate

Average Time : 63 Seconds

**Options :**

1. To overcome one's weakness

To try to avoid something

3. To attack without warning

4. To struggle hard

### Solution :

The correct answer is **option 2** i.e. **To try to avoid something**.

- The meaning of the above idiom is '**be unwilling to undertake or become involved with**'.
- Hence as per the meaning the correct option is '**To try to avoid something**'.

Hence the correct answer is-

**To try to avoid something.**

### Question 64 :

Select the most appropriate option to fill in the blank. The teacher kept stopping her online lesson \_\_\_\_\_ to check if her students were following it.

Difficulty : Moderate

Average Time : 53 Seconds

### Options :

1. occasionally
2. indifferently
3. impartially
4. unresponsively

### Solution :

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

- In the above sentence the teacher is concerned whether the students are **listening to her online lesson, hence, she kept stopping the lesson irregularly**.
- The meaning of '**occasionally**' is '**infrequent**'.

Hence the correct answer is-

**occasionally**

### Question 65 :

Select the most appropriate synonym of the given word. Amass



Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Gather
2. Spread
3. Divide
4. Scatter

Solution :

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

- The meaning of **Amass** is '**to collect or put together a large quantity of something**'.
- The meaning of the options are as follows-

1. **Gather**- to come or be brought together in a group
2. **Spread**- to affect a larger area or a bigger group of people
3. **Divide**- to separate into different parts
4. **Scatter**- to move away quickly in different directions

Clearly as per the meanings the correct synonym is-

**Gather**

Question 66 :

Select the most appropriate ANTONYM of the given word. Authentic

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Incredible
2. Meagre
3. Genuine
4. Notorious

Solution :

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

- The meaning of **Authentic** is '**that you know is real or genuine**'.



The meaning of the options are as follows-

1. **Incredible**- impossible or very difficult to believe
2. **Meagre**- too small in amount
3. **Genuine**- true
4. **Notorious**- well known for something bad

Clearly as per the meanings the correct antonym is-

**Incredible**

**Question 67 :**

Select the most appropriate ANTONYM of the given word. Relay

**Difficulty : Moderate**

**Average Time : 54 Seconds**

**Options :**

1. Send
2. Pass
3. Spread
4. Hold

**Solution :**

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

- The meaning of **Relay** is 'receive and then pass on a message or a signal'.
- The meaning of **Hold** is 'grasp, keep, retain'.

Clearly, as per the meaning the antonym of **Relay** is **Hold**.

Hence the correct answer is-

**Hold**

**Question 68 :**

The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer. The increase in irrigated areas / has resulted on achieving / record food grain production.

**Difficulty : Moderate**

**Average Time : 59 Seconds**

**Options :**



The increase in irrigated areas

- has resulted on achieving
- record food grain production
- No error

**Solution :**

The correct answer is **option 2** i.e. **has resulted on achieving**.

- Preposition** is used before a **noun, pronoun, noun phrase etc.**
- In the above sentence the use of the preposition is wrong.
- The preposition **'in'** will be used with achieving instead of **'on'**.

Hence the correct sentence is-

The increase in irrigated areas has resulted **in** achieving record food grain production.

**Question 69 :**

Select the option that expresses the given sentence in indirect speech. They cried, "Bravo! Well done."

**Difficulty : Moderate**

**Average Time : 55 Seconds**

**Options :**

- They shouted in joy that they had done well.
- They cried in joy for doing well.
- They cried loudly for doing well.
- They exclaimed with wonder that they had done well.

**Solution :**

The correct answer is **option 1** i.e. **They shouted in joy that they had done well**.

- The above sentence is a **declarative sentence** i.e. **exclamatory sentence**.
  - In order to convert it to indirect sentence following rules are to be followed.
- 'They'** will be used to refer to people being talked about.
  - 'Had'** will be used to denote past perfect tense.
  - Inverted commas and commas will be removed and **'that'** will be used.
  - 'Cried'** will be changed **'shouted in joy'**.



Hence, the correct sentence is-

**They shouted in joy that they had done well.**

**Question 70 :**

Select the option that expresses the given sentence in passive voice. It is time to revise the syllabi.

**Difficulty : Moderate**

**Average Time : 71 Seconds**

**Options :**

1. It is time for the syllabi to be revised.
2. It is time for the syllabi to revise.
3. It has been time for the syllabi to revise.
4. It was time for the syllabi to be revised.

**Solution :**

The correct answer is **option 1** i.e. **It is time for the syllabi to be revised.**

- The above sentence is in **simple present tense**.
- The structure required to convert it into passive voice is as follows-

1. **Object+is/am/are+v3+by+object**

Hence the correct sentence is-

**It is time for the syllabi to be revised.**

**Question 71 :**

Select the most appropriate option to fill in the blank. People all over the world are concerned about the human right to live with \_\_\_\_\_.

**Difficulty : Moderate**

**Average Time : 61 Seconds**

**Options :**

1. poise
2. delight
3. dignity
4. grandeur

**Solution :**

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

- The sentence talks about the concern in the general public regarding the human rights.
- The meaning of the option '**dignity**' is '**serious behaviour that makes other people respect you**'.
- The major concern is regarding people living with **dignity and poise**.

**Hence, the correct sentence is-**

People all over the world are concerned about the human right to live with **dignity**.

**Comprehension :**

In the following passage some words have been deleted. Fill in the blanks with the help of alternatives given. Select the most appropriate option for each blank. Listening plays (1) \_\_\_\_\_ role in the interactive process of business transactions. It enables a person to gather proper and (2) \_\_\_\_\_ information so that he can understand the matter with clarity. For this, he should have a positive attitude towards the speaker and the (3) \_\_\_\_\_. He should also (4) \_\_\_\_\_ on what is being spoken and then evaluate it with reference to the (5) \_\_\_\_\_.

**Question 72 :**

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

**Difficulty : Moderate**

**Average Time : 76 Seconds**

**Options :**

1. a paltry
2. a significant
3. a trivial
4. an abundant

**Solution :**

The correct answer is **option 2** i.e. a **significant**.

- The sentence talks about the role of **listening** in the business transactions.

Hence the correct answer is-

**significant**

**Comprehension :**

In the following passage some words have been deleted. Fill in the blanks with the help of alternatives given. Select the most appropriate option for each blank. Listening plays (1) \_\_\_\_\_ role in the interactive process of business transactions. It enables a person to gather proper and (2) \_\_\_\_\_ information so that he can understand the matter with clarity. For this, he should have a positive attitude towards the speaker and the (3) \_\_\_\_\_. He should also (4) \_\_\_\_\_ on what is being spoken and then evaluate it with reference to the (5) \_\_\_\_\_.

### Question 73 :

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

Difficulty : Moderate

Average Time : 64 Seconds

### Options :

1. approximate
2. vague
3. accurate
4. superficial

### Solution :

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

- The sentence talks about the importance of **listening**.
- It helps gather **proper and correct information** about the topic.

Hence, the correct answer is-

**accurate**

### Comprehension :

In the following passage some words have been deleted. Fill in the blanks with the help of alternatives given. Select the most appropriate option for each blank. Listening plays (1) \_\_\_\_\_ role in the interactive process of business transactions. It enables a person to gather proper and (2) \_\_\_\_\_ information so that he can understand the matter with clarity. For this, he should have a positive attitude towards the speaker and the (3) \_\_\_\_\_. He should also (4) \_\_\_\_\_ on what is being spoken and then evaluate it with reference to the (5) \_\_\_\_\_.

### Question 74 :

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

Difficulty : Moderate

Average Time : 64 Seconds

### Options :





writer

2. words

3. topic

4. orator

### Solution :

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

- The sentence talks about the importance of **attention and interest** of the listener.
- The attention and interest is required both toward the **speaker** as well as **the topic**.

Hence, the correct answer is-

**topic**

### Comprehension :

In the following passage some words have been deleted. Fill in the blanks with the help of alternatives given. Select the most appropriate option for each blank. Listening plays (1) \_\_\_\_\_ role in the interactive process of business transactions. It enables a person to gather proper and (2) \_\_\_\_\_ information so that he can understand the matter with clarity. For this, he should have a positive attitude towards the speaker and the (3) \_\_\_\_\_. He should also (4) \_\_\_\_\_ on what is being spoken and then evaluate it with reference to the (5) \_\_\_\_\_.

### Question 75 :

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

Difficulty : Moderate

Average Time : 68 Seconds

### Options :

1. neglect
2. concentrate
3. distract
4. disperse

### Solution :

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

- The sentence talks about the **attention** required towards what's being spoken.

Hence, the correct answer is-

**concentrate****Comprehension :**

In the following passage some words have been deleted. Fill in the blanks with the help of alternatives given. Select the most appropriate option for each blank. Listening plays (1) \_\_\_\_\_ role in the interactive process of business transactions. It enables a person to gather proper and (2) \_\_\_\_\_ information so that he can understand the matter with clarity. For this, he should have a positive attitude towards the speaker and the (3) \_\_\_\_\_. He should also (4) \_\_\_\_\_ on what is being spoken and then evaluate it with reference to the (5) \_\_\_\_\_.

**Question 76 :**

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

**Difficulty : Moderate****Average Time : 61 Seconds****Options :**

1. paragraph
2. context
3. selection
4. excerpt

**Solution :**

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

- The sentence talks about the evaluation of what's being told.
- This can only be done if the **context** of what's being spoken is known.

Hence, the correct answer is-

**context****Question 77 :**

A manufacturer who marks the price of an article at Rs 1,800, sells it to a discount of 15%. The dealer gets a further discount of 8% on his net payment for paying in cash. What amount (to the nearest rupee) does the dealer pay to the manufacturer?

**Difficulty : Moderate****Average Time : 51 Seconds****Options :**

1. 1500
2. 1408



1530

4. 1378

**Solution :**The correct answer is **option 2** i.e. **1408****Given:**

Marked price = Rs. 1800

Discount<sub>1</sub> = 15%Discount<sub>2</sub> = 8%**Formula used:**Effective discount = Discount<sub>1</sub> + Discount<sub>2</sub> - (Discount<sub>1</sub> × Discount<sub>2</sub>)/100 ---- (1)**Calculations:**

Using equation (1), we get

Effective discount = 15 + 8 - 1.2 = 21.8%

Selling price = Marked price(1 - effective discount/100)

1800(1 - 0.218)

1407.6  $\simeq$  1408**Question 78 :**If the volume of a sphere is 4851 cm<sup>3</sup>, then what is its diameter (In cm)? (take  $\pi = 22/7$ )**Difficulty : Moderate****Average Time : 54 Seconds****Options :**

1. 18

2. 16

3. 12

4. 21

**Solution :**The correct answer is **option 4** i.e. **21**

**Formula used:**

$$\text{Volume of sphere} = \frac{4}{3}\pi r^3 \quad \text{---- (1)}$$

Where r is the radius

**Calculations:**

Using equation (1)

$$\frac{4}{3} \times \frac{22}{7} \times r^3 = 4851$$

$$r^3 = \frac{101871}{88} = 1157.625$$

$$r = 10.5$$

$$\text{Diameter} = 2 \times \text{radius} = 2 \times 10.5 = 21$$

**Question 79 :**

Study the given histogram and answer the question that follows. The total number of workers whose daily wages are less than Rs 500 is what percentage more than total number of workers whose daily wages are Rs 650 and above (correct to one decimal place)?

Difficulty : Moderate

Average Time : 55 Seconds

**Options :**

1. 111.8%
2. 110.5%
3. 101.2%
4. 114.3%

**Solution :**

The correct answer is **option 4** i.e. **114.3%**

**Calculations:**

Total number of workers whose daily wages are less than Rs 500 = 30 + 45 = 75

Total number of workers whose daily wages are Rs 650 and above = 35

Required percentage =  $(75 - 35)/35 \times 100 = 40/35 \times 100$

$$114.28\% \ (\simeq) \ 114.3\%$$

**Question 80 :**

If  $x - 1/x = 3$ , then what is the value of  $x^4 + ?$

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. 531
2. 7
3. 623
4. 527

Solution :

The correct answer is **option 4** i.e. **527**

Formula used:

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

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

Calculations:

$$(x - 1/x)^2 = x + 1/x - 2$$

$$3 + 2 = x + 1/x \quad \text{---- (3)}$$

Using equation (2) in (3)

$$(x + 1/x)^2 = x^2 + 1/x^2 + 2$$

$$25 - 2 = x^2 + 1/x^2$$

Now,

$$(x^2 + 1/x^2)^2 = x^4 + 1/x^4 + 2$$

$$529 - 2 = x^4 + 1/x^4$$

$$x^4 + 1/x^4 = 527$$

Question 81 :

The area of similar triangles PQR and MNT are 196 cm<sup>2</sup> and 169 cm<sup>2</sup> respectively. If the longest side of the larger  $\hat{\angle}PQR$  be 28 cm then what is the length (in cm) of the longest side of the smaller  $\hat{\angle}MNT$ ?

Difficulty : Moderate

Average Time : 77 Seconds

**Options :**

1. 26
2. 24
3. 25
4. 27

**Solution :**

The correct answer is **option 1** i.e. 26

**Concept used:**

Two triangles are similar if their corresponding angles are equal and their corresponding sides are within the same ratio (or proportion) such that area of these similar triangle will be in proportion to the square of their similar sides.

**Calculations:**

$$\text{Area of } \triangle PQR / \text{Area of } \triangle MNT = PR^2 / MT^2$$

$$196 / 169 = PR^2 / MT^2$$

Taking square roots on both sides, we get

$$14 / 13 = 28 / MT$$

$$MT = 26 \text{ cm}$$

**Question 82 :**

A circle with centre O has radius 15 cm. D is a point on the circle such that a 24 cm long chord AB is bisected by OD at point C. Find the length of CD (in cm).

**Difficulty :** Moderate

**Average Time :** 61 Seconds

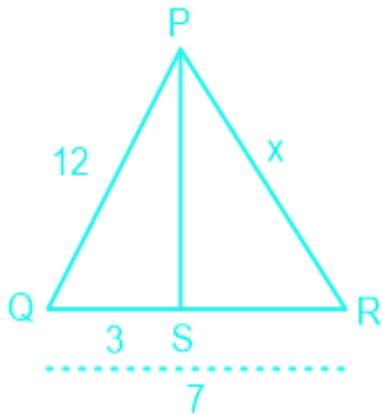
**Options :**

1. 9
2. 6
3. 4
4. 10

**Solution :**

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

### Calculations:



We know that if the radius of the circle is perpendicular to the chord, it bisects the chord in two equal parts.

In triangle OAC, using pythagoras theorem

$$AC^2 + OC^2 = OA^2$$

$$OC^2 = 15^2 - 12^2 = 225 - 144 = 81$$

$$OC = 9$$

We know that,  $CD = OD - OC$

$OD =$  radius of the circle  $= 15$  cm

$$CD = 15 - 9 = 6 \text{ cm}$$

### Question 83 :

A shopkeeper earns a profit of 17% on selling a book at 10% discount on the printed price. If the cost price is Rs 500, then the printed price (in Rs) is:

**Difficulty :** Moderate

**Average Time :** 63 Seconds

### Options :

1. 615
2. 750
3. 585
4. 650

### Solution :

The correct answer is **option 4** i.e. **650**

**Formula used:**

$$\text{Marked price} \times (100 - \text{discount}\%) = \text{Cost price} \times (100 + \text{profit}\%) = \text{selling price} \quad \text{----- (1)}$$

**Calculations:**

According to the question

$$\text{Marked price} = 500 \times (100 + 17)/(100 - 10)$$

$$\text{Marked price} = 500 \times (117/90) = 650$$

**Question 84 :**

AB is a diameter of a circle with centre O. The tangent at a point C on the circle and AB, when produced, meet at the point P. If  $\angle APC = 38^\circ$ , then what is the measure of  $\angle PCB$ ?

**Difficulty : Moderate**

**Average Time : 51 Seconds**

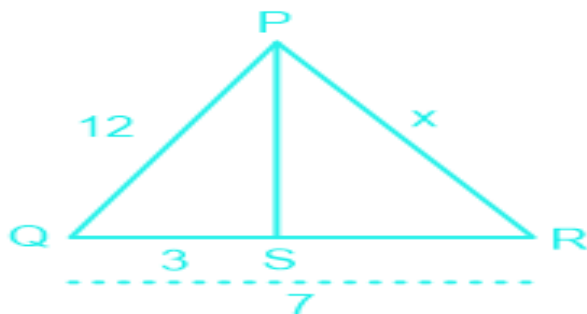
**Options :**

1.  $23^\circ$
2.  $26^\circ$
3.  $29^\circ$
4.  $19^\circ$

**Solution :**

The correct answer is **option 2** i.e.  **$26^\circ$**

**Calculations:**



In  $\triangle PQR$ , we have

$$\angle QPS + \angle RPS + \angle QPR = 180$$





$$COP = 180 - 90 - 38 = 52$$

We know that,  $BCO = CBO$  (angle opposite to equal sides)

$\triangle BOC$  is an isosceles triangle

$$BCO + CBO + COB = 180$$

$$BCO = (180 - 52)/2 = 64$$

We know that,  $PCB = 90 - BCO$

$$PCB = 90 - 64 = 26$$

**Question 85 :**

A sum of Rs 17,200 is lent out at simple interest in two parts for 2 years at 8%p.a. and 10% p.a. respectively. If the total interest received after 2 years is Rs 3,008, then the money lent (in Rs) at the rate of 8% p.a. is:

**Difficulty : Moderate****Average Time : 68 Seconds****Options :**

1. 9400
2. 9200
3. 9800
4. 10800

**Solution :**

The correct answer is **option 4** i.e. **10800**

**Formula used:**

$$\text{Simple interest} = \frac{PRT}{100}$$

Where P = principal, R = rate and T = time

**Calculations:**

Let the amount lent on 8% rate be x

$$\text{Amount lent on 10% rate} = (17200 - x)$$

According to the question, total interest is Rs. 3008

$$4x/25 + (17200 - x)/5 = 3008$$

$$4a + 86000 - 5a = 3008 \times 25$$

$$a = 86000 - 75200 = 10800$$

**Question 86 :**

From the top of a 195-m high cliff, the angles of depression of the top and bottom of a tower are  $30^\circ$  and  $60^\circ$ , respectively. Find the height of the tower (in cm).

Difficulty : Moderate

Average Time : 55 Seconds

**Options :**

1. 195
2. 196
3. 130
4. 65

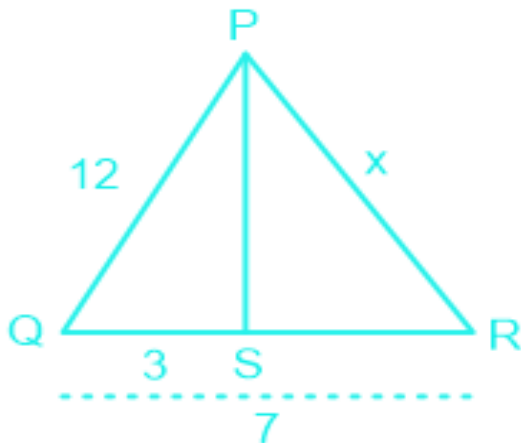
**Solution :**

The correct answer is **option 3** i.e. **130**

**Formula used:**

$$\tan = \text{perpendicular/base} \quad \text{----- (1)}$$

**Calculations:**



Let us take  $BD = x$  and  $AB = y$ , where  $BD = AE$

$$CE = 195 - x$$

$$\tan 30^\circ = (195 - x)/y$$



$$y = (195 - x)3 \quad \text{---- (1)}$$

Now,  $\tan 60^\circ = 195/y$

$$y = 195/3 \quad \text{---- (2)}$$

Equating equation (1) and (2)

$$(195 - x)3 = 195/3$$

$$195 = 585 - 3x$$

$$3x = 390$$

$$x = 130.$$

Hence, height of the tower is 130 m.

**Question 87 :**

In an election between two candidates, 5% of the registered voters did not cast their vote. 10% of the votes were found to be either invalid or of NOTA. The winning candidates received 60% votes in his favor and won the election by 17271 votes. Find the number of registered voters.

**Difficulty : Moderate**

**Average Time : 74 Seconds**

**Options :**

1. 90525
2. 100000
3. 101000
4. 102500

**Solution :**

The correct answer is **option 3** i.e. **101000**

**Calculations:**

Let the total number of votes be  $x$

5% didn't cast their votes = 95% of  $x$

Invalid votes = 10%

Total valid votes = 90% of (95% of  $x$ )

Votes of winning candidate = 60% of 90% of (95% of  $x$ )



Votes of losing candidate = 40% of 90% of (95% of x)

Now, according to the question

$$60\% \text{ of } 90\% \text{ of } (95\% \text{ of } x) - 40\% \text{ of } 90\% \text{ of } (95\% \text{ of } x) = 17271$$

$$20\% \text{ of } 90\% \text{ of } (95\% \text{ of } x) = 17271$$

$$0.2 \times 0.9 \times .95 \times x = 17271$$

$$x = 101000$$

**Question 88 :**

The area of a cardboard (in cm<sup>2</sup>) needed to make a closed box of size 20 cm × 10 cm × 8 cm will be:

**Difficulty : Moderate****Average Time : 60 Seconds****Options :**

1. 880
2. 690
3. 750
4. 960

**Solution :**

The correct answer is **option 1** i.e. **880**

**Given:**

Length = 20 cm, breadth = 10 cm and height = 8 cm

**Formula used :**

$$\text{Total surface area of cuboid} = 2(lb + bh + hl) \quad \text{---- (1)}$$

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

**Calculations:**

Using equation (1)

$$\text{TSA} = 2(20 \times 10 + 10 \times 8 + 8 \times 20)$$

$$2(200 + 80 + 160)$$

$$2(440) = 880$$

**Question 89 :**

The given bar graph shows the income and expenditure (in crores Rs) of a company over 5 years, from 2014 to 2018. Study the bar graph and answer the question that follows. In which of the following years is the ratio of income to expenditure the minimum?

Difficulty : Moderate

Average Time : 56 Seconds

**Options :**

1. 2017
2. 2018
3. 2014
4. 2016

**Solution :**

The correct answer is **option 2** i.e. **2018**

**Calculations:**

Ratio of income to expenditure in 2014 =  $225/175 = 1.29$

Ratio of income to expenditure in 2015 =  $280/250 = 1.12$

Ratio of income to expenditure in 2016 =  $325/175 = 1.18$

Ratio of income to expenditure in 2017 =  $350/300 = 1.16$

Ratio of income to expenditure in 2018 =  $350/325 = 1.08$

Hence, the ratio of income to expenditure the minimum in 2018.

**Question 90 :**

Anup can row 33 km downstream and 35 km upstream in 8 hours. He can also row 44 km downstream and 28 km upstream in the same time. How much time (in hours) will he take to row 55 km downstream and 14 km upstream?

Difficulty : Moderate

Average Time : 52 Seconds

**Options :**

1. 9
2. 6
3. 8



7

**Solution :**

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

**Given:**

Anup can row 33 km downstream and 35 km upstream in 8 hours

He can also row 44 km downstream and 28 km upstream in 8 hours

**Concept Used:**

Time = Distance/speed

Downstream speed = speed of boat + speed of stream

Upstream speed = speed of boat - speed of stream

**Calculations:**

Let the speed of boat and stream be  $x$  and  $y$ .

Downstream speed =  $x + y$

Upstream speed =  $x - y$

According to the question, we get

$$\left(\frac{33}{x + y} + \frac{35}{x - y} = 8\right) \quad \text{----- (1)}$$

$$\left(\frac{44}{x + y} + \frac{28}{x - y} = 8\right) \quad \text{----- (2)}$$

Subtracting equation (1) from (2)

$$11x - 11y = 7x + 7y$$

$$4x = 18y$$

$$x = 18y/4$$

$$x = 9/2y$$

Using the value of  $x$  in equation (1), we get

$$y = 2 \text{ and } x = 9$$

Time required to travel 55 km downstream and 14 km upstream =  $\left(\frac{55}{x + y} + \frac{14}{x - y}\right)$

$$55/11 + 14/7$$



$$5 + 2 = 7 \text{ hours}$$

Hence he take to row 55 km downstream and 14 km upstream in 7 hours.

**Question 91 :**

Find the value of te following expression:

**Difficulty : Moderate**

**Average Time : 90 Seconds**

**Options :**

1.  $\frac{9}{7}$
2.  $\frac{19}{3}$
3.  $\frac{4}{7}$
4.  $\frac{4}{3}$

**Solution :**

The correct answer is **option 1** i.e.  $\frac{9}{7}$

**Concept used:**

BODMAS rule

**Calculations:**

$$\Rightarrow \frac{3 \times 2 + 5 - 2}{9 - 2}$$

$$\Rightarrow \frac{6 + 5 - 2}{7}$$

$$\Rightarrow \frac{11 - 2}{7} = \frac{9}{7}$$

Hence the value of  $\frac{3 \div 1 \times 2 + 5 - 2}{3 \times 3 - 2}$  is  $\frac{9}{7}$ .

**Question 92 :**

The bar graph shows the number of people who visited Mall A and Mall B on different days of a week. The total number of people visiting Mall A on Monday, Tuesday, Friday and Sunday is what percentage of the total number of people visiting Mall B on Tuesday, Thursday, Saturday and Sunday? Express your answer correct to one place of decimal.

**Difficulty : Moderate**

**Average Time : 71 Seconds**

**Options :**



86.5%

2. 92.3%

3. 95.7%

4. 82.4%

**Solution :**

The correct answer is **option 2** i.e. **92.3%**

**Calculations:**

Total number of people visiting Mall A on Monday, Tuesday, Friday and Sunday =  $560 + 700 + 840 + 1500$   
= 3600

Total number of people visiting Mall B on Tuesday, Thursday, Saturday and Sunday =  $700 + 750 + 1100 + 1350 = 3900$

Required percentage =  $(3600/3900) \times 100 = 92.3\%$

**Question 93 :**

If  $2\sin^2 + 3\cos = 3$ ,  $0^\circ < \theta < 90^\circ$ , then the value of  $(\sec^2 + \cot^2)$  is:

**Difficulty : Moderate**

**Average Time : 43 Seconds**

**Options :**

1. 3

2. 2

3.  $4\frac{1}{3}$

4. 5

**Solution :**

The correct answer is **option 3** i.e.  $4\frac{1}{3}$

**Calculations:**

We know that  $\sin^2 = 1 - \cos^2$

$$2\sin^2 + 3\cos = 3$$





$$2(1 - \cos^2) + 3\cos = 3$$

Take  $\cos = a$

$$2 - 2a^2 + 3a = 3$$

$$2a^2 - 3a + 1 = 0$$

$$(2a - 1)(a - 1) = 0$$

$$a = 1/2, 1$$

$$\cos = 1/2, 1 \text{ i.e. } = 60^\circ$$

Putting the value of , we get

$$\sec^2 60 + \cot^2 60 = 4 + 1/3 = \left(4\frac{1}{3}\right)$$

**Question 94 :**

A number 'n' when divided by 6 leaves remainder 2. What will be the remainder when  $(n^2 + n + 2)$  is divided by 6?

**Difficulty : Moderate**

**Average Time : 70 Seconds**

**Options :**

1. 4

2. 6

3. 0

4. 2

**Solution :**

The correct answer is **option 4** i.e. **2**

**Calculations:**

Let the number be 8 so when it is divided by 6 leaves remainder 2

Now we have  $n = 8$

$$\text{So, } (n^2 + n + 2) = (64 + 8 + 2) = 74$$

When 74 is divided by 6 it gives 2 as a remainder.

**Question 95 :**

Monthly expenditure of a family on different heads is shown in the following pie chart. The family earns Rs 1,08,000 every month. How much (in Rs) does the family spend on food and transport?



Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 34000
2. 35250
3. 34800
4. 34500

Solution :

The correct answer is **option 4** i.e. **34500**

Calculations:

The family earns Rs 1,08,000 every month

Expenditure of the family on food and transport = 115°

$$(115/360) \times 108000 = 34500$$

Question 96 :

LCM of two numbers is 22 times their HCF. If one of the numbers is 132 and the sum of LCM and HCF is 276, then what is the other number?

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. 24
2. 30
3. 25
4. 20

Solution :

The correct answer is **option 1** i.e. **24**

Given:

LCM of two numbers is 22 times their HCF

One of the numbers is 132



Sum of LCM and HCF is 276

**Formula used:**

$$\text{LCM} \times \text{HCF} = A \times B \quad \text{----- (1)}$$

Where, A = one number

B = another number

**Calculations:**

Let the HCF be h

$$\text{LCM} = 22h$$

$$22h + h = 276$$

$$23h = 276$$

$$h = 12$$

$$\text{LCM} = 22 \times 12 = 264$$

Now using equation (1), we get

$$264 \times 12 = 132 \times B$$

$$B = 24$$

**Question 97 :**

The average of a set of 18 consecutive integers is 22.5. What is the largest integer in the set?

**Difficulty : Moderate**

**Average Time : 61 Seconds**

**Options :**

1. 14

2. 13

3. 31

4. 17

**Solution :**

The correct answer is **option 3** i.e. 31

**Given:**



Average of a set of 18 consecutive integers is 22.5

**Formula used:**

$$\text{Sum of } n \text{ terms of an AP} = n(a + l)/2 \quad \text{---- (1)}$$

Where,  $a$  = first term and  $l$  = last term

**Calculations:**

If the first term is  $n$  then the last term i.e. 18th term =  $n + 17$

Using equation (1), we get

$$\text{Sum of 18 terms} = 18 \times (n + n + 17)/2$$

$$\text{Average of 18 terms} = (2n + 17)$$

$$\text{Average} = (2n + 17)/2$$

$$(2n + 17)/2 = 22.5$$

$$2n + 17 = 45$$

$$2n = 28$$

$$n = 14$$

Hence, the largest number =  $n + 17 = 31$

**Question 98 :**

A can do a certain work in 15 days, while B can do the same work in 21 days. If they work together, then in how many days will the same work be completed?

**Difficulty : Moderate**

**Average Time : 66 Seconds**

**Options :**

1.  $7\frac{3}{4}$

2.  $9\frac{3}{4}$

3.  $6\frac{3}{4}$

4.  $8\frac{3}{4}$

**Solution :**

The correct answer is **option 4** i.e.  $8\frac{3}{4}$

**Concept used:**

LCM method is used.

**Calculations:**

Let the total work done by A and B be 105 units (LCM of 15 and 21)

Work done by A in 1 day =  $105/15 = 7$  units

Work done by B in 1 day =  $105/21 = 5$  units

Total work done by A and B in 1 day = 12 units

Required time taken =  $105/12 = 8\frac{3}{4}$

**Question 99 :**

In  $\triangle PQR$ , S is a point on the side QR such that PS is the bisector of  $\angle QPR$ . If PQ = 12 cm, QS = 3 cm and QR = 7 cm, then what is the length of side PR?

**Difficulty : Moderate**

**Average Time : 80 Seconds**

**Options :**

1. 18 cm
2. 14 cm
3. 15 cm
4. 16 cm

**Solution :**

The correct answer is **option 1** i.e. **16 cm**

**Given:**

$\triangle PQR$ , S is a point on the side QR and PS is the bisector of  $\angle QPR$

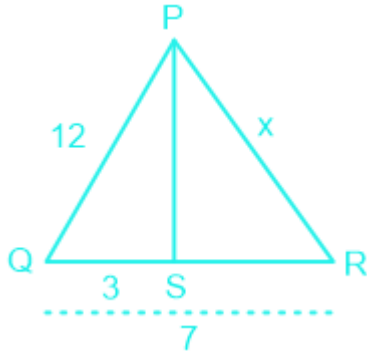
PQ = 12 cm, QS = 3 cm and QR = 7 cm

**Concept used:**

Angle bisector theorem is used which states that the angle bisector of a triangle divides the opposite side into two parts that are proportional to the other two sides of the triangle.

**Calculations:**

Let PR be  $x$  then according to angle bisector theorem we have



$$PQ/PR = QS/SR$$

$$12/x = 3/4$$

$$x = 16 \text{ cm}$$

**Question 100 :**

Three years ago, the ratio of the age of father to that of his son was 8 : 3. After 7 years, their age will be in the ratio 11 : 5. What is the present age (in years) of the father?

**Difficulty : Moderate****Average Time : 71 Seconds****Options :**

1. 52

2. 51

3. 48

4. 55

**Solution :**

The correct answer is **option 2** i.e. 51

**Calculations:**

Let the present age of father and the son 3 years ago be  $8x$  and  $3x$

Age of father and son after 4 years be  $(8x + 7)$  and  $(3x + 7)$

According to the question:



$$(8x + 7)/(3x + 7) = 11/5$$

$$40x + 35 = 33x + 77$$

$$7x = 42$$

$$x = 6$$

$$\text{Present age of father} = 8x + 3 = 48 + 3 = 51$$

## Ssc Cgl Tier I Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2022-04-18 in the Evening exam is as follows:

1. 100 questions were moderate.
2. The safe score is 140 marks.
3. 25 questions were asked from Logical Reasoning, 25 questions were asked from Quantitative Aptitude, 25 questions were asked from English Language and 25 questions were asked from General Awareness
4. 12 questions should have been skipped if you were short of time.

## Ssc Cgl Tier I Previous Year Question Paper Topic Wise Weightage

### Logical Reasoning

1. Coding Decoding - 3
2. Analogy - 2
3. Classification - 1
4. Seating Arrangement - 1
5. Blood Relations - 1
6. Distance And Direction - 1
7. Syllogism - 1
8. Venn Diagrams - 1
9. Dictionary Based - 1
10. Figure Based - 3
11. Matrix - 1
12. Series - 5
13. Mathematical Reasoning - 3

Cubes And Dice - 1

## Quantitative Aptitude

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



## English Language

1. Comprehensive - 5
2. Spotting Error - 4
3. Parajumbles - 1
4. Idioms - 2
5. One Word Substitution - 3
6. Fillers - 2
7. Voice - 2
8. Parts Of Speech - 1
9. Sentence Improvement - 1
10. Synonym - 1
11. Antonym - 3

## General Awareness

1. NDA GK - 25

# Ssc Cgl Tier I Previous Year Question Paper Tips

Page No: 72

Follow us on



Address : 1997, Mukherjee Nagar, 110009

Email : [online@kdcampus.org](mailto:online@kdcampus.org)

Call : +91 95551 08888

Download the App





## 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.

## Daily Current Affairs



KD Live is providing [Current Affairs](#) on a daily basis for SSC and a [Current Affairs Quiz](#) too for the practice.

## KD Live Free Offerings

Page No: 73

Follow us on



Address : 1997, Mukherjee Nagar, 110009

Email : [online@kdcampus.org](mailto:online@kdcampus.org)

Call : +91 95551 08888

Download the App





KD Live is Offering Every Information and Study Material required for the self study. Please click on the following links for accessing those.

- [Study Plan](#)
- [General Science](#)
- [General Awareness](#)
- [General Knowledge](#)
- [Quantitative Aptitude](#)
- [Logical Reasoning](#)
- [English Language](#)
- [Today In History](#)
- [Syllabus](#)
- [Know Your State](#)
- [Know Your Country](#)
- [Know Your City](#)
- [Know Your Leader](#)
- [Books And Authors](#)
- [Daily Vocabulary](#)
- [Daily Editorial](#)
- [Latest Notifications](#)
- [Exam Dates](#)
- [Admit Card](#)
- [Exam Results](#)
- [Exam Cutoff](#)
- [Exam Eligibility](#)
- [Exam Pattern](#)



## STUDY CONTENTS THAT GET YOU SELECTED



**5 LAKH+ STUDENTS**  
Already enrolled with our  
selection focused courses.



**30+ EXPERT INSTRUCTORS**  
Our instructors are the best  
in the industry



**10000+ HOURS OF VIDEOS**  
All videos are well-explained for you  
to get every bit out of the videos

# FREE PDF

[Answer Key](#)  
[Important Days](#)

## Further Guidance on Ssc Cgl Tier I Previous Year Question Paper

For Asking any query on Ssc Cgl Tier I Previous Year Question Paper please mail [Send Email](#) or you can fill the form at [KD Live](#).

### About KD Live

KD live has an expertise in providing apt explanations for the Ssc Cgl Tier I Previous Year Question Paper since 2008. More than 10 lakh aspirants have cleared competitive exams under the guidance of Neetu Mam. Study.kdcampus.live is providing free information on various topics and for the Ssc Cgl Exam you can refer the following link [Click Here](#) however if you want to practice more questions then please refer the following link [Click Here](#).

### About Neetu Mam

Neetu Mam is primarily passionate for the English language and teaching from the last 20 years however for the Ssc Cgl Tier I Previous Year Question Paper. She has guided her team to provide the best explanation for the question.

Page No: 75

Follow us on



Address : 1997, Mukherjee Nagar, 110009  
Email : [online@kdcampus.org](mailto:online@kdcampus.org)  
Call : +91 95551 08888

Download the App

