

# 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 2021-08-23 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 :

Choose the fourth word which is related to the third word in the same way as the second word is related to first word. Yen : Pound :: Polo : ?

Difficulty : Moderate

Average Time : 45 Seconds

### Options :

1. Horse
2. Water
3. Stick
4. Cricket

### Solution :

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

Understanding	Application
Yen and Pound both are currencies. Polo is a sport game.	<b>Cricket</b> is also a sport game.

### Question 2 :

Find the odd one out.

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Pressure
2. Current
3. Erg
4. Power

Solution :

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

Understanding	Application
Except Erg, all other words are Quantities. <b>NOTE:</b> <b>Erg</b> is a unit of Energy.	<b>Erg</b> is a unit of measurement.

Question 3 :

Find the odd one out.

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. 729
2. 521
3. 433
4. 123

Solution :

The correct answer is **option 1** i.e. **729**

Understanding	Application
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Except 729, all other numbers are only natural numbers.	<b>729</b> is the perfect cube of 9.
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**Question 4 :**

Find the missing number in the given series. 328, 331, 337, 346, 358, ?

Difficulty : Moderate

Average Time : 40 Seconds

**Options :**

1. 368
2. 373
3. 371
4. 375

**Solution :**The correct answer is **option 2** i.e. **373**

Understanding	Application
Given series: 328, 331, 337, 346, 358, ?  The numbers are added by multiples of three in increasing order.  $328 + 3 = 331,$ $331 + 6 = 337,$ $337 + 9 = 346,$ $346 + 12 = 358,$	$358 + 15 =$ <b>373</b>

**Question 5 :**

Fill in the blanks with appropriate set of letters. a\_caabc\_ab\_a\_bcaa\_ca

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. acabc
2. bacab
3. bcacb
4. cabba

Solution :

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

Understanding	Application
Given: a_caabc_ab_a_bcaa_ca	
a) acabc aaca / abcc / abaa / bbca / acca It doesn't follow any pattern	b) bacab
c) bcacb abca / abcc / abaa / cbca / abca It doesn't follow any pattern	abca / abca / ab ca / abca / abca It follows a certain pattern
d) cabba acca / abca / abba / bbca / aaca It doesn't follow any pattern	

Question 6 :

If the 5- digit number 593ab is divisible by 3, 7 and 11, then what is the value of  $(a^2 - b^2 + ab)$ ?

Difficulty : Moderate

Average Time : 83 Seconds

Page No: 4

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**Options :**

1. 25
2. 35
3. 31
4. 29

**Solution :**

The correct answer is **Option 4** i.e **29**.

We have given a five digit number = 593ab

LCM of 3, 7, 11 = 231

Let's assume the five digit number is 59399.

If  $59399 \div 231$  then we got 32 as a reminder.

So, the correct number that is divisible by 231 =  $59399 - 32 = 59367$

Where  $a = 6$  and  $b = 7$

Now the value of  $(a^2 - b^2 + ab) = (36 - 49 + 42) = 29$

**Question 7 :**

Pipes A and B can fill a tank in 12 hours and 16 hours respectively and pipe C can empty the full tank in 24 hours. All three pipes are opened together, but after 4 hours pipe B is closed. In how many hours, the empty tank will be completely filled?

**Difficulty :** Moderate

**Average Time :** 57 Seconds

**Options :**

1. 28
2. 32
3. 18
4. 14

**Solution :**

The correct answer is **Option 3** i.e **18**.

Pipes A and B can fill a tank in 12 hours and 16 hours respectively and pipe C can empty the full tank in 24 hours.

LCM of 12, 16, 24 = 48 = total capacity of the tank

Efficiency of A = 4

Efficiency of B = 3

Efficiency of C = - 2

In 4 hours all pipes are opened together So, they filled the tank =  $(4 + 3 - 2) \times 4 = 20$

Remaining tank is filled by A and C =  $\frac{48-20}{4-2}=14$  days

So, the total time take =  $4 + 14 = 18$  days

**Question 8 :**

if  $8 + 2px^2 - 36x - 27x^3 = (2 - 3x)^3$ , then what is the value of p?

Difficulty : Moderate

Average Time : 56 Seconds

**Options :**

1. -27
2. 9
3. 27
4. 54

**Solution :**

The correct answer is **Option 3** i.e **27**.

$$8 + 2px^2 - 36x - 27x^3 = (2 - 3x)^3$$

$$(a - b)^3 = a^3 - b^3 - 3a^2b + 3ab^2$$

$$8 + 2px^2 - 36x - 27x^3 = 8 - 27x^3 - 3 \times 4 \times 3x + 3 \times 2 \times 9x^2$$

$$8 - 27x^3 + 2px^2 - 36x = 8 - 27x^3 + 54x^2 - 36x$$

Comparing both sides :

$$2p = 54$$

$$p = 27$$

**Question 9 :**

A circle inscribed in a quadrilateral ABCD, touching sides AB, BC, CD and DA at P, Q, R and S, respectively. If AS = 6 cm, BC = 12 cm, and CR = 5 cm, then the length of AB (in cm) is:

Difficulty : Moderate

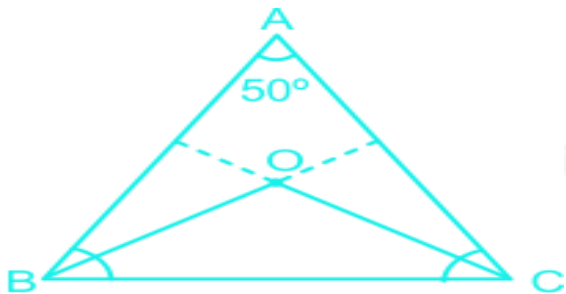
Average Time : 64 Seconds

Options :

1. 12
2. 13
3. 15
4. 11

Solution :

The correct answer is **Option 2** i.e 13.



The length of two tangents drawn from an external point to a circle are equal.

In the above diagram,

$$CR = CQ = 5 \text{ cm}$$

$$BC = BQ + CQ$$

$$12 = BQ + 5$$

$$BQ = 7 \text{ cm}$$

$$BQ = BP = 7 \text{ cm}$$

$$AS = AP = 6 \text{ cm}$$

The length of  $AB = AP + BP = 6 + 7 = 13 \text{ cm}$

**Question 10 :**

In triangle ABC, AD is the bisector of A. If  $AB = 5 \text{ cm}$ ,  $AC = 7.5 \text{ cm}$  and  $BC = 10 \text{ cm}$ , then what is the distance of D from the mid-point of BC (in cm)?

Difficulty : Moderate

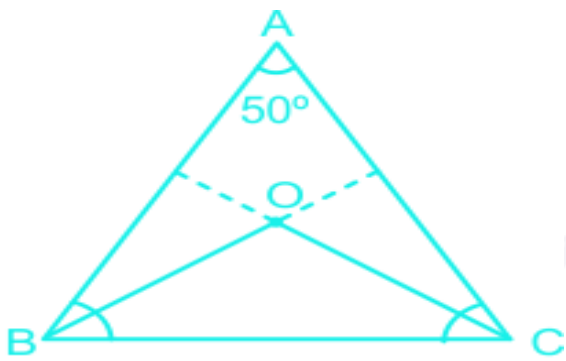
Average Time : 58 Seconds

**Options :**

1. 2.2
2. 1
3. 1.5
4. 2

**Solution :**

The correct answer is **Option 2** i.e 1.



In the above diagram  $AB = 5$  cm,  $AC = 7.5$  cm,  $BC = 10$  cm.  $AD$  is the angle bisector and  $P$  is the midpoint of  $BC$ .

$$AB/AC = BD/DC$$

$$5/7.5 = BD/DC$$

$$2x : 3x = BD : DC$$

$$BC = BD + DC$$

$$10 = 2x + 3x$$

$$x = 2$$

$$BD = 4 \text{ cm}$$

$$DC = 6 \text{ cm}$$

$$\text{Midpoint } BP = CP = BC/2 = 10/2 = 5 \text{ cm}$$

$$\text{So, the distance between midpoint and D} = DP - BD = 5 - 4 = \mathbf{1 \text{ cm}}$$

**Question 11 :**

In festival season, a shopkeeper allows a discount of 10% of on every item. Even after giving the discount, he makes a profit of 20%. If he does not give any discount, then what will be his profit percent? (correct to 2 decimal places).





Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. 33.33
2. 33.43
3. 25
4. 33

Solution :

The correct answer is **Option 1** i.e **33.33**.

Let's assume the marked price of the article = Rs 100

After 10% discount, selling price =  $100 \times (100 - 10)/100 = \text{Rs } 90$

Profit = 20%

Cost price =  $SP \times 100/(100+\text{profit}\%)$

Cost price =  $90 \times (100/120) = \text{Rs } 75$

Now according to the question if he sell the item on marked price then,

Profit percentage =  $\left(\frac{100-75}{75}\right) \times 100 = 33.33\%$

**Question 12 :**

Study the following table and answer the question: Percentage of marks obtained by six students in five subjects A, B, C, D & E. Subjects Students A (Out of 75) B (Out of 80) C (Out of 100) D (Out of 50) E (Out of 150) Manju 68 85 86 72 92 Amit 64 65 80 96 80 Rekha 88 75 65 74 90 Anuj 80 55 68 66 84 Abhi 72 65 72 54 74 Vikram 60 70 73 84 86 Total marks obtained by Amit, Abhi and Anuj in subject E is what percent more than the total marks obtained by all the six student in subject B? (correct to one decimal place)

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. 8.5
2. 7.2
3. 7.5
4. 8.4

**Solution :**

The correct answer is **Option 3** i.e **7.5** .

Total marks obtained by Amit, Abhi and Anuj in subject E =  $(80 + 74 + 84) \times \frac{150}{100} = 357$

Total marks obtained by all the six student in subject B =  $(85 + 65 + 75 + 55 + 65 + 70) \times \frac{80}{100} = 332$

The required percentage =  $\left(\frac{357-332}{332}\right) \times 100 = 7.5\%$

**Question 13 :**

Radha saves  $x\%$  of her income. If her income increased by 28% and the expenditure increases by 20%, then her savings increase by 40%. What is the value of  $x$ ?

**Difficulty : Moderate****Average Time : 48 Seconds****Options :**

1. 35
2. 50
3. 25
4. 40

**Solution :**

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

Let's assume the income of Radha = 100

Savings of Radha =  $100 \times \frac{x}{100} = x$

Expenditure of Radha =  $100 - x$

After 28% increased, the income of Radha =  $100 \times \frac{100 + 28}{100} = 128$

After 20% increased, the expenditure =  $(100 - x) \times \frac{100 + 20}{100} = 120 - \frac{6x}{5}$

After 40% increased, the savings =  $x \times \frac{100 + 40}{100} = \frac{7x}{5}$

Income - Expenditure = Savings

$$128 - 120 + \frac{6x}{5} = \frac{7x}{5}$$

$$8 = \frac{x}{5}$$

$$x = 40$$

**Question 14 :**



Find the value of  $(\frac{\tan^2 30^\circ}{\sec^2 30^\circ} + \frac{\operatorname{cosec}^2 45^\circ}{\cot^2 45^\circ} - \frac{\sec^2 60^\circ}{\operatorname{cosec}^2 60^\circ})$ .

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1.  $-\frac{3}{4}$
2.  $\frac{5}{4}$
3.  $\frac{23}{12}$
4.  $\frac{13}{4}$

Solution :

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

$$\left(\frac{\tan^2 30^\circ}{\sec^2 30^\circ} + \frac{\operatorname{cosec}^2 45^\circ}{\cot^2 45^\circ} - \frac{\sec^2 60^\circ}{\operatorname{cosec}^2 60^\circ}\right)$$

$$= \left(\frac{1}{3} \over \frac{4}{3} + \frac{2}{1} - \frac{4}{\frac{4}{3}}\right)$$

$$= \left(\frac{1}{4} + 2 - 3 = -\frac{3}{4}\right)$$

Question 15 :

Table shows income (in Rs) received by 4 employees of a company during the month of December 2020 and the income sources. Source Amit Suresh Nitin Varun Salary 35000 38500 29000 42000 Arrears 6000 6300 5000 7500 Bonus 1000 1100 1000 1240 Overtime 1800 1950 1400 1500 Whose income form all sources except salary is more than 25% of his salary?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. None
2. Amit and Nitin
3. Varun
4. Amit

Solution :

The correct answer is **Option 2** i.e **Amit and Nitin** .

$$\text{Amit} = \left(\frac{6000+1000+1800}{35000}\right) \times 100 = 25.14\%$$

$$\text{Suresh} = \left(\frac{6300+1100+1950}{38500}\right) \times 100 = 24.28\%$$

$$\text{Nitin} = \left(\frac{5000+1000+1400}{29000}\right) \times 100 = 25.51\%$$

$$\text{Varun} = \left(\frac{7500+1250+1500}{42000}\right) \times 100 = 24.40\%$$

So, it is clear that **Amit and Nitin's** income from all sources except salary is more than 25% of his salary.

**Question 16 :**

A boat covers a round trip journey between two points A and B in a river in T hours. If its speed in still water becomes 2 times, it would take  $\left(\frac{80}{161}\right)$  T hours for the same journey. Find the ratio of its speed in still water to the speed of the river.

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

1. 161 : 40
2. 2 : 1
3. 1 : 11
4. 11 : 1

**Solution :**

The correct answer is **Option 4** i.e. **11 : 1**.

Let the speed of the boat in still water = x km/h

The speed of the stream = y km/h

Downstream = x + y km/h

Upstream = x - y km/h

Time = Distance/Speed

Now according to the question,

$$D/(x + y) + D/(x - y) = T$$

$$D \cdot 2x/(x^2 - y^2) = T$$

$$D/T = (x^2 - y^2)/2x \dots\dots\dots(1)$$

$$D/(2x + y) + D/(2x - y) = 80T/161$$

$$D \cdot 4x/(4x^2 - y^2) = 80T/161$$

$$D/T = (80/161) \cdot (4x^2 - y^2)/4x \dots\dots\dots(2)$$



From eq. (1) and (2)

$$(x^2 - y^2)/2x = (80/161)(4x^2 - y^2)/4x$$

$$(x^2 - y^2) = (40/161)(4x^2 - y^2)$$

$$161x^2 - 161y^2 = 160x^2 - 40y^2$$

$$x^2 = 121y^2$$

$$x^2/y^2 = 121$$

$$x/y = 11/1$$

So, the required ratio = 11 : 1

**Question 17 :**

In an examination, the average score of a student was 67.6. If he would have got 27 more marks in Mathematics, 10 more marks in Computer Science, 18 more marks in History and retained the same marks in other subjects, then his average score would have been 72.6. How many papers were there in the examination?

Difficulty : Moderate

Average Time : 100 Seconds

**Options :**

1. 9

2. 12

3. 11

4. 10

**Solution :**

The correct answer is **Option 3** i.e 11.

Let's assume the total number of papers is  $x$  and some of the marks of students is  $y$ .

$$\text{Average} = \left(\frac{y}{x}\right) = 67.6$$

$$y = 67.6x$$

$$\text{New average} = \left(\frac{y+27+10+18}{x}\right) = 72.6$$

Put the value of  $y$  in the above equation.

$$67.6x + 55 = 72.6x$$

$$5x = 55$$

$$x = 11$$

The total number of papers  $x = 11$

**Question 18 :**

Fourth proportion to 12, 18, 6 is equal to the third proportion to 4 k. What is the value of k?

**Difficulty : Moderate**

**Average Time : 53 Seconds**

**Options :**

1. 6.5
2. 4
3. 6
4.  $4\sqrt{3}$

**Solution :**

The correct answer is **Option 3** i.e 6.

Let's assume the fourth proportion is X.

$$12 : 18 : 6 : X$$

$$\left(\frac{12}{18} = \frac{6}{x}\right)$$

$$x = 9$$

Now, according to the question,

$$9 = 6/4k$$

$$k = 3 \times 2 = 6$$

**Question 19 :**

Table shows the number of trees planted in 4 cities from 2016 to 2020. Years Chandigarh Ahmadabad Pune Kolkata 2016 1800 2500 1800 2000 2017 2500 2300 1850 1800 2018 2300 2400 1840 1760 2019 2440 1950 1900 1600 2020 2250 2100 2000 1750 In which city were maximum trees planted in 2016 and 2019 taken together?

**Difficulty : Moderate**

**Average Time : 48 Seconds**

**Options :**

1. Kolkata
2. Chandigarh

Ahmedabad

4. Pune

**Solution :**

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

From the given cities, the maximum trees were planted in 2016 and 2019 together in Ahmedabad city.

The total number of trees planted in 2016 and 2019 in **Ahmedabad** city = 2500 + 1950 = 4450

**Question 20 :**

Simple the following expression:  $(7 \times 4 - 21) \div 4 - 5 \div 4 \times (9 - 13) + 2 - 2 \div 8$

**Difficulty : Moderate**

**Average Time : 40 Seconds**

**Options :**

1.  $7 \frac{1}{12}$
2.  $5 \frac{1}{16}$
3.  $5 \frac{1}{2}$
4.  $12 \frac{1}{2}$

**Solution :**

The correct answer is **Option 1** i.e  $7 \frac{1}{12}$ .

$(7 \times 4 - 21) \div 4 - 5 \div 4 \times (9 - 13) + 2 - 2 \div 8$

Solve the question according to the BODMAS Rule.

$(7 \times 4 - 21) \div 4 - 5 \div 4 \times (-4) + 2 - 2 \div 8$

$(7 \times \frac{1}{1} \times 21) - \frac{5}{4} \times (-4) + 2 - \frac{1}{4}$

$(\frac{1}{3} + 7 - \frac{1}{4})$

$(\frac{1}{12} + 7) = 7 \frac{1}{12}$

**Question 21 :**

Vertices A, B, C and D of a quadrilateral ABCD lie on a circle. A is three times C and D is two times B. What is the difference between the measures of D and C?

**Difficulty : Moderate**

**Average Time : 64 Seconds**

**Options :**

65°

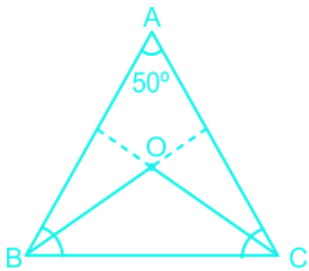
2. 55°

3. 45°

4. 75°

**Solution :**

The correct answer is **Option 4** i.e **75°**.



Let's assume the  $C = x$  and  $B = y$

So,  $A = 3x$  and  $D = 2y$

The sum of opposite angles of a cyclic quadrilateral is  $180^\circ$

$$A + C = 180^\circ$$

$$3x + x = 180^\circ$$

$$x = 45^\circ$$

$$B + D = 180^\circ$$

$$y + 2y = 180^\circ$$

$$y = 60^\circ$$

$$D - C = 2 \times 60^\circ - 45^\circ = 75^\circ$$

**Question 22 :**

If  $2x^2 - 7x + 5 = 0$ , then what is the value of  $(x^3 + \frac{125}{8x^3})$ ?

**Difficulty : Moderate**

**Average Time : 69 Seconds**

**Options :**

1.  $\frac{5}{8}$





$$\sqrt[12]{\frac{5}{8}}$$

3.  $\sqrt[16]{\frac{5}{8}}$

4.  $\sqrt[10]{\frac{5}{8}}$

**Solution :**

The correct answer is **Option 3** i.e.  $\sqrt[16]{\frac{5}{8}}$ .

$$2x^2 - 7x + 5 = 0$$

$$x(2x - 7 + 5/x) = 0$$

$$2x + 5/x = 7$$

Cubing both sides

$$8x^3 + (125/x^3) + 3 \cdot 2x \cdot 5/x (2x + 5/x) = 343$$

$$8x^3 + (125/x^3) = 343 - 210$$

$$8x^3 + (125/x^3) = 133$$

Dividing by 8 on both sides

$$(x^3 + 125/8x^3) = 133/8 = \sqrt[16]{\frac{5}{8}}$$

**Question 23 :**

Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary. 1. Sensational 2. Sensitize 3. Sentiment 4. September 5. Sentence

**Difficulty :** Moderate

**Average Time :** 63 Seconds

**Options :**

1. 1, 2, 5, 3, 4

2. 5, 3, 2, 1, 4

3. 2, 1, 5, 3, 4

4. 5, 1, 2, 4, 3

**Solution :**

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

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



So the arrangement is;

1. Sensational
2. Sensitize
3. Sentence
4. Sentiment
5. September

**Question 24 :**

Select the number from among the given options that can replace the question mark (?) in the following series. 11, 13, 19, 49, 109, 239, ?

**Difficulty : Moderate**

**Average Time : 43 Seconds**

**Options :**

1. 449
2. 394
3. 349
4. 494

**Solution :**

The correct answer is **option 1** i.e. **449**.

Given series: 11, 13, 19, 49, 109, 239, ?

The logic used here is:

$$11 + (1^3 + 1) = 13$$

$$13 + (2^3 - 2) = 19$$

$$19 + (3^3 + 3) = 49$$

$$49 + (4^3 - 4) = 109$$

$$109 + (5^3 + 5) = 239$$

$$239 + (6^3 - 6) = 449$$

So, the next term in the series is **449**.

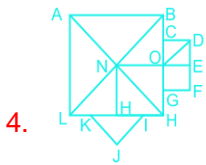
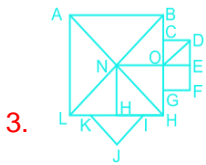
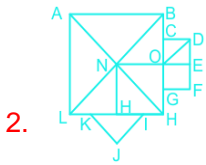
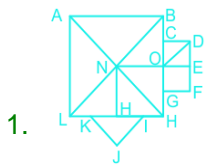
**Question 25 :**

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

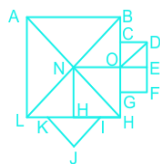
**Difficulty : Moderate**

**Average Time : 45 Seconds**

**Options :**

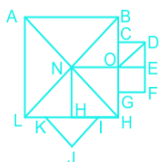


**Solution :**



The correct answer is **option 1**.

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



**Question 26 :**

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: All teachers are doctors. Some professors are doctors. All professors are engineers. Conclusions: I. All professors are doctors. II. Some doctors are engineers. III. Some teachers are engineers. IV. Some teachers are professors.

Difficulty : Moderate

Average Time : 80 Seconds

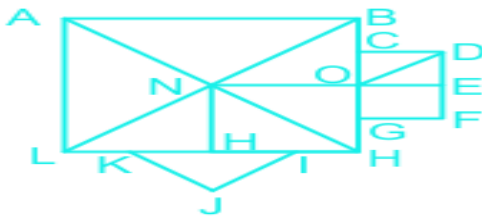
Options :

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

Solution :

The correct answer is **option 2** i.e. **Only conclusion II follows**.

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



Conclusions:

- I. All professors are doctors **False** (It is possible but no definite conclusion can be drawn).
- II. Some doctors are engineers **True** (As some professors are doctors, and all professors are engineers, so, we can conclude that some doctors are engineers ).
- III. Some teachers are engineers **False** (It is possible but no definite conclusion can be drawn).
- IV. Some teachers are professors **False** (It is possible but no definite conclusion can be drawn).

Hence, **Only conclusion II follows**.

Question 27 :

Read the given information carefully and answer the question that follows. 'K \$ D' means 'K is the father of D'. 'K D' means 'K is the wife of D'. 'K > D' means 'K is the daughter of D'. 'K @ D' means 'K is the son of D'. How is S related to N in the



expression 'H > R \$ S@T > N'?

**Difficulty : Moderate**

**Average Time : 98 Seconds**

**Options :**

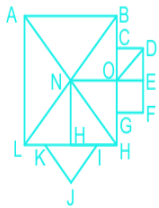
1. Son-in-law
2. Grandson
3. Son
4. Nephew

**Solution :**

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

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, S is the grandson of N.

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

**Question 28 :**

Find the number of triangles in the given figures.

**Difficulty : Moderate**

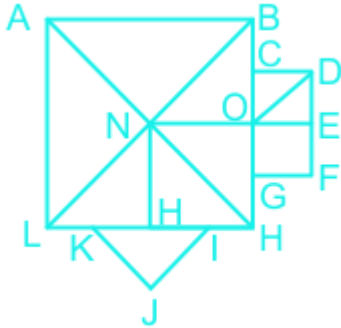
**Average Time : 51 Seconds**

**Options :**

1. 19
2. 13
3. 15
4. 17

**Solution :**

The correct answer is **option 3** i.e. **15**.



15 triangles: ABN, ANL, LNH, BNH, ALH, ABH, ALB, BLH, NML, NMH, KJI, NOH, NOB, COD, DOE.

### Question 29 :

Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.  
G \_CT\_GP\_T\_GPC\_D\_PC\_D

Difficulty : Moderate

Average Time : 45 Seconds

### Options :

1. P, D, C, D, T, G, T
2. P, C, T, D, G, T, D
3. P, D, D, C, G, T, T
4. P, T, T, D, D, C, G

### Solution :

The correct answer is **option 1** i.e. **P, D, C, D, T, G, T**.

The sequence is – P, D, C, D, T, G, T

Given sequence: G \_CT\_GP\_T\_GPC\_D\_PC\_D

**Option 1:** P, D, C, D, T, G, T

GPCTD/ GPCTD/ GPCTD/ GPCTD

Option 1 forms a particular pattern.

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

### Question 30 :

Select the option in which the numbers are related in the same way as the numbers of the following set. (4, 282, 5)



Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. (3, 405, 6)

2. (5, 25, 1)

3. (7, 152, 3)

4. (2, 84, 4)

Solution :

The correct answer is **option 3** i.e. (7, 152, 3).

The logic used here is:

(4, 282, 5)

$$4^2 + 5^3 = 16 + 125 = 141$$

$$141 \times 2 = 282$$

Similarly,

(7, 152, 3)

$$7^2 + 3^3 = 49 + 27 = 76$$

$$76 \times 2 = 152$$

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

**Question 31 :**

In a certain code language, 'LOWER' is coded as '186', and 'MULISH' is coded as '320'. How will 'OPTIONAL' be coded in that language?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 456

2. 564

3. 546

4. 465

**Solution :**

The correct answer is **option 1** i.e. **456**.

The logic used here is:

'LOWER' is coded as '186'

Opposite of L = O = 15

Opposite of O = L = 12

Opposite of W = D = 4

Opposite of E = V = 22

Opposite of R = I = 9

Sum of the positional values =  $15 + 12 + 4 + 22 + 9 = 62$

Code =  $62 \times (\text{Number of consonants in the word LOWER}) = 62 \times 3 = 186$

Similarly,

Code for the word OPTIONAL:

Opposite of O = L = 12

Opposite of P = K = 11

Opposite of T = G = 7

Opposite of I = R = 18

Opposite of O = L = 12

Opposite of N = M = 13

Opposite of A = Z = 26

Opposite of L = O = 15

Sum of the positional values =  $12 + 11 + 7 + 18 + 12 + 13 + 26 + 15 = 114$

Code =  $62 \times (\text{Number of consonants in the word OPTIONAL}) = 114 \times 4 = 456$

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

**Question 32 :**

In a certain code language, 'PAWAN' is written as 'SCZCQ' and 'SOHAM' is written as 'VQKCP'. How will 'KIRAN' be written in that language?





Difficulty : Moderate

Average Time : 82 Seconds

Options :

1. NKUCQ
2. MJUCQ
3. NLVDQ
4. MJVQR

Solution :

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

The logic used here is:

'PAWAN' is written as 'SCZCQ'

$$P + 3 = S$$

$$A + 2 = C$$

$$W + 3 = Z$$

$$A + 2 = C$$

$$N + 3 = Q$$

'SOHAM' is written as 'VQKCP'

$$S + 3 = V$$

$$O + 2 = Q$$

$$H + 3 = K$$

$$A + 2 = C$$

$$M + 3 = P$$

Similarly,

Code for the word KIRAN:

$$K + 3 = N$$

$$I + 2 = K$$

$$R + 3 = U$$



$$A + 2 = C$$

$$N + 3 = Q$$

Code for the word KIRAN = NKUCQ.

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

**Question 33 :**

Two numbers A and B are such that the sum of 3% of A and 6% of B is four-fifths of the sum of 4% of A and 6% of B. Find the ratio of A + B and A - B.

**Difficulty : Moderate**

**Average Time : 69 Seconds**

**Options :**

1. 5: 6

2. 7: 5

3. 4: 5

4. 6: 5

**Solution :**

The correct answer is **option 2** i.e. **7: 5**.

According to the question;

$$3\% \text{ of } A + 6\% \text{ of } B = \frac{4}{5} \times (4\% \text{ of } A + 6\% \text{ of } B)$$

$$3 \times A + 6 \times B = \frac{4}{5} \times (4 \times A + 6 \times B)$$

$$A + B / A - B = 7 / 5.$$

$$(A + B) : (A - B) = 7 : 5$$

**Question 34 :**

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

**Difficulty : Moderate**

**Average Time : 46 Seconds**

**Options :**

1. Lusaka



Taka

3. Harare

4. Manama

### Solution :

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

The logic used here is:

Harare is the capital city of Zimbabwe.

Lusaka is the capital city of Zambia.

Manama is the capital city of Bahrain.

Taka is not the capital country of any country.

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

### Question 35 :

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

Toothpaste: Teeth:: Broom:?

Difficulty : Moderate

Average Time : 51 Seconds

### Options :

1. Clean

2. Wash

3. Floor

4. Garbage

### Solution :

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

The logic used here is:

Toothpaste: Teeth

Toothpaste is used to brush teeth.

Similarly,



Broom:?

A broom is used to clean the floor.

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

**Question 36 :**

Select the option in which the numbers are NOT related in the same way as the numbers of the following set. (63, 76, 46)

Difficulty : Moderate

Average Time : 46 Seconds

**Options :**

1. (83, 96, 66)
2. (45, 58, 28)
3. (72, 85, 55)
4. (69, 84, 52)

**Solution :**

The correct answer is **option 4** i.e. (69, 84, 52).

The logic used here is:

(63, 76, 46)

$$63 + 13 = 76$$

$$76 - 30 = 46$$

**Option 1:** (83, 96, 66)

$$83 + 13 = 96$$

$$96 - 30 = 66$$

This follows the logic.

**Option 2:** (45, 58, 28)

$$45 + 13 = 58$$

$$58 - 30 = 28$$

This follows the logic.

**Option 3:** (72, 85, 55)



$$72 + 13 = 85$$

$$85 - 30 = 55$$

This follows the logic.

**Option 4:** (69, 84, 52)

$$69 + 13 = 82$$

$$82 - 30 = 52$$

This does not follow the logic.

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

**Question 37 :**

Select the letter cluster from among the given options that can replace the question mark (?) in the following series. PND, QKI, RHN, SES, ?

**Difficulty :** Moderate

**Average Time :** 58 Seconds

**Options :**

1. TBX
2. SXC
3. TXB
4. SCX

**Solution :**

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

Given series: PND, QKI, RHN, SES, ?

The logic used here is:

PND, QKI

$$P + 1 = Q$$

$$N - 3 = K$$

$$D + 5 = I$$

Similarly;

SES,?

$$S + 1 = T$$

$$E - 3 = B$$

$$S + 5 = X$$

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

**Question 38 :**

Select the correct combination of mathematical signs that can sequentially replace the \* signs and balance the equation.

$$25 * 7 * 40 * 20 * 4 * 210$$

Difficulty : Moderate

Average Time : 50 Seconds

**Options :**

1. +, , =, ÷, ×

2. ×, , +, ÷, =

3. , +, =, ÷, ×

4. ×, +, , ÷, =

**Solution :**

The correct answer is **option 4** i.e. **×, +, , ÷, =**.

**Given equation:**  $25 * 7 * 40 * 20 * 4 * 210$

Let us check all the options:

**Option 1:** +, , =, ÷, ×

The expression becomes:

$$= 25 + 7 - 40 = 20 \div 4 \times 210$$

$$= -8 \text{ is not equal to } 1050.$$

**Option 2:** ×, , +, ÷, =

The expression becomes:

$$= 25 \times 7 - 40 + 20 \div 4 = 210$$

$$= 140 \text{ is not equal to } 210.$$



**Option 3:** , +, =, ÷, ×

The expression becomes:

$$= 25 - 7 + 40 = 20 \div 4 \times 210$$

= 58 is not equal to 1050.

**Option 4:** ×, +, , ÷, =

The expression becomes:

$$= 25 \times 7 + 40 - 20 \div 4 = 210$$

= 210 is equal to 210.

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

**Question 39 :**

Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number pair that is different.

**Difficulty :** Moderate

**Average Time :** 72 Seconds

**Options :**

1. 19: 68
2. 23: 84
3. 13: 90
4. 17: 60

**Solution :**

The correct answer is **option 3** i.e. **13: 90**.

The logic used here is:

$$1\text{st number} \times 4 - 8 = 2\text{nd number}$$

**Option 1:** 19: 68

$$19 \times 4 - 8 = 68$$

This follows the logic.

**Option 2:** 23: 84



$$23 \times 4 - 8 = 84$$

This follows the logic.

**Option 3:** 13: 90

$$13 \times 4 - 8 = 44$$

This does not follow the logic.

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

**Question 40 :**

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 : 55 Seconds**

**Options :**

1. LNJP
2. GIEY
3. PRNT
4. FHDJ

**Solution :**

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

The logic used here is:

$$1\text{st letter} + 2 = 2\text{nd letter}$$

$$2\text{nd letter} - 4 = 3\text{rd letter}$$

$$3\text{rd letter} + 6 = 4\text{th letter}$$

**Option 1:** LNJP

$$L + 2 = N$$

$$N - 4 = J$$

$$J + 6 = P$$

This follows the logic.





**Option 2:** GIEY

$$G + 2 = I$$

$$I - 4 = E$$

$$E + 6 = K$$

This does not follow the logic.

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

**Question 41 :**

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

39: 91:: 51:?

**Difficulty : Moderate**

**Average Time : 59 Seconds**

**Options :**

1. 93
2. 119
3. 125
4. 178

**Solution :**

The correct answer is **option 2** i.e. **119**

The logic used here is:

$$39: 91$$

$$39 \div 3 = 13$$

$$13 \times 7 = 91$$

Similarly,

$$51:?$$

$$51 \div 3 = 17$$

$$17 \times 7 = 119$$

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

**Question 42 :**

Select the option in which the words share the same relationship as that shared by the given pair of words. Help: Hinder

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Indigent: Rich
2. Lenient: Forgiving
3. Impulsive: Hasty
4. Insipid: Plain

Solution :

The correct answer is **option 1** i.e. **Indigent: Rich**.

The logic used here is:

Help: Hinder

Help means making it easier or possible to do something by offering one's services or resources.

Hinder means making it difficult to do something or for (something) to happen.

Help is the antonym of hinder.

Similarly,

Indigent: Rich

Indigent means poor.

Rich means having a great deal of money or assets; wealthy.

Indigent is the antonym of rich.

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

**Question 43 :**

Select the most appropriate synonym of the given word. Banner

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. March
2. Rally

Poster

4. Protest

**Solution :**

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

- The word '**Banner**' means '**a long strip of cloth bearing a slogan or design, carried in a demonstration or procession or hung in a public place**'.
- The most appropriate synonym of the given word is '**Poster**' which means '**a large printed picture, notice, or advertisement displayed in a public place**'.

Hence, the correct answer is **Option 3** i.e. **Poster**.

**Question 44 :**

Select the INCORRECTLY spelt word.

**Difficulty : Moderate**

**Average Time : 51 Seconds**

**Options :**

1. Elite
2. Petete
3. Concrete
4. Secrete

**Solution :**

The correct answer is **Option 2** i.e. **Petete**.

The correct word is '**Petite**'. If a woman or girl is **petite**, **she is small and thin in an attractive way**.

For example: *She was dark and petite, as all his wives had been.*

Let's see the meaning of the other words:

- **Secrete** - (of a cell, gland, or organ) produce and discharge (a substance).
- **Elite** - a select group that is superior in terms of ability or qualities to the rest of a group or society.
- **Concrete** - existing in a material or physical form: not abstract.

Hence, the correct answer is **Option 2** i.e. **Petete**.

**Question 45 :**

Select the most appropriate synonym of the given word. Absolve



Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. Accuse
2. Condemn
3. Attack
4. Pardon

Solution :

The correct answer is **Option 4** i.e. **Pardon**.

- The word '**Absolve**' means '**declare (someone) free from guilt, obligation, or punishment**'.
- The most appropriate synonym of the given word is '**Pardon**' which means '**the action of forgiving or being forgiven for an error or offence**'.

Hence, the correct answer is **Option 4** i.e. **Pardon**.

Let's see the meaning of the other words:

- **Accuse** - charge (someone) with an offence or crime.
- **Condemn** - express complete disapproval of censure.
- **Attack** - take aggressive military action against (a place or enemy forces) with weapons or armed force.

Hence, the correct answer is **Option 4** i.e. **Pardon**.

Question 46 :

Select the most appropriate ANTONYM of the given word. Fecund

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. Barren
2. Polite
3. Genial
4. Rude

Solution :

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



The word 'Fecund' means 'producing or capable of producing an abundance of offspring or new growth; highly fertile'.

- The most appropriate antonym of the given word is 'Barren' which means '(of land) not producing or unable to produce plants'.

Hence, the correct answer is **Option 1** i.e. **Barren**.

**Question 47 :**

The following sentence has been divided into parts. One of them contains an error. Select the part that contains the error from the given options. The army / marched fearless / towards / the enemy cantonment.

Difficulty : Moderate

Average Time : 55 Seconds

**Options :**

1. marched fearless
2. towards
3. The army
4. the enemy cantonment

**Solution :**

The correct answer is **Option 1** i.e. **marched fearless**.

- The error lies in option 1 due to the wrong usage of adjective.
- The verb marched cannot be described by an adjective fearless. To describe a verb we need an adverb.
- Thus, in the sentence, instead of the adjective fearless, the **adverb fearlessly** should be used to make the sentence grammatically correct.

The correct sentence is:- **The army marched fearlessly towards the enemy cantonment.**

Hence, the correct answer is **Option 1** i.e. **marched fearless**.

**Question 48 :**

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'. What were the examples that the writer gave to prove his point?

Difficulty : Moderate

Average Time : 66 Seconds

**Options :**

1. given to prove his point



**gave to prove his point**

3. No substitution

4. give for proving his point

**Solution :**

The correct answer is **Option 2** i.e. **gave to prove his point**.

- The error lies in the underlined part due to the wrong usage of tense.
- The verb gave is in past tense form which is correct for the sentence. It should be followed by the to infinitive to make it correct.
- In the sentence, the verb **gave** should be followed by **to prove** to make the underlined part correct.

The correct sentence is:- **What were the examples that the writer gave to prove his point?**

Hence, the correct answer is **Option 2** i.e. **gave to prove his point**.

**Question 49 :**

Select the most appropriate option to fill in the blank. We are bewildered by the power which science has suddenly placed in our laps, and we are \_\_\_\_\_ by the realisation of our unpreparedness to deal with a crisis.

**Difficulty : Moderate**

**Average Time : 73 Seconds**

**Options :**

1. proud
2. demeaned
3. condemned
4. humbled

**Solution :**

The correct answer is **Option 4** i.e. **humbled**.

Let's see the meaning of the given words:

- **Condemned** - sentenced to a particular punishment, especially death.
- **Humbled** - cause (someone) to feel less important or proud.
- **Proud** - feeling deep pleasure or satisfaction as a result of one's own achievements, qualities, or possessions or those of someone with whom one is closely associated.
- **Demeaned** - cause a severe loss in the dignity of and respect for (someone or something).



The given blank needs a word that would describe how the power of science makes us feel.

From the given options, it is clear that **humbled** is the best fit word for the given blank.

Hence, the correct answer is **Option 4** i.e. **humbled**.

**Question 50 :**

Select the most appropriate meaning of the given idiom. Draw the line at something

Difficulty : Moderate

Average Time : 71 Seconds

**Options :**

1. Accept something up to a particular point
2. Agreeing to an idea
3. Making pencil sketches
4. Coming to a conclusion

**Solution :**

The correct answer is **Option 1** i.e. **Accept something up to a particular point**.

The idiom '**Draw the line at something**' means '**to set a limit on what one is willing to do or accept**'.

Therefore, **accept something up to a particular point** is the most appropriate meaning of the given idiom.

Hence, the correct answer is **Option 1** i.e. **Accept something up to a particular point**.

**Question 51 :**

The following sentence has been divided into parts. One of them contains an error. Select the part that contains the error from the given options. Several prominent film stars / have appeared on television / on behalf of awareness / about hand hygiene.

Difficulty : Moderate

Average Time : 64 Seconds

**Options :**

1. on behalf of awareness
2. have appeared on television
3. about hand hygiene
4. Several prominent film stars

**Solution :**



The correct answer is **Option 1** i.e. **on behalf of awareness**.

- The error lies in option 1 as it fails to establish any coherent sense.
- **Awareness** is an abstract noun which means **knowledge or perception of a situation or fact**.
- The sentence implies that the film stars are appearing on television on behalf of awareness, which is incorrect.
- The correct phrase should be **to raise awareness**. When you raise awareness, you are **publicizing an important cause**.

The correct sentence is:- **Several prominent film stars have appeared on television to raise awareness about hand hygiene.**

Hence, the correct answer is **Option 1** i.e. **on behalf of awareness**.

**Question 52 :**

Select the option that expresses the given sentence in indirect speech. The counter clerk asked the visitor, "What is your name?"

Difficulty : Moderate

Average Time : 72 Seconds

**Options :**

1. The counter clerk asked the visitor his name.
2. The counter clerk asks the visitor your name.
3. The counter clerk is asking the visitor your name.
4. The counter clerk has asked the visitor his name.

**Solution :**

The correct answer is **Option 1** i.e. **The counter clerk asked the visitor his name**.

The given sentence is an interrogative sentence, to convert this sentence into indirect speech we need to follow the following points:

- Inverted commas will get omitted.
- The reporting verb asked remains unchanged.
- The pronoun 'your' will be changed into pronoun 'his'.
- The tense of the given sentence is past tense which remains unchanged.

After following these steps, we got the indirect speech as: **The counter clerk asked the visitor his name**.

Hence, the correct answer is **Option 1** i.e. **The counter clerk asked the visitor his name**.

**Question 53 :**



Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph. A. Information Communication Technology tools have brought in additional changes along with means of communication. B. These changes have enabled man to communicate faster. C. Communication has not only become faster but easier too. D. The result is a more relaxed life than ever before.

Difficulty : Moderate

Average Time : 87 Seconds

Options :

1. ABDC
2. DBCA
3. ABCD
4. CDBA

Solution :

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

While arranging the parts of the passage, we should find some grammatical or contextual connections between them. Also, the first sentence of a passage is usually independent and introduces a topic. The second one provides more information about it.

Steps to arrange the sentences in the correct order to form a meaningful and coherent paragraph:

- Sentence A is the independent sentence and introduces the subject of the passage which deals with Information Communication Technology tools. So, **sentence A** is the first sentence after rearrangement.
- Sentence A talks about how the tools have made changes. It should be followed by B which states the effects of these tools. Hence, **sentence B follows sentence A**.
- **Sentence D** talks about the overall result from the subject under discussion, therefore, it should come in the end. **Sentence D** is the **concluding statement**.
- Thus, the correct order after rearrangement is **option 3** i.e. **ABCD**.

The paragraph is: **Information Communication Technology tools have brought in additional changes along with means of communication. These changes have enabled man to communicate faster. Communication has not only become faster but easier too. The result is a more relaxed life than ever before.**

Hence, the correct answer is **Option 3** i.e. **ABCD**.

Question 54 :

Select the option that can be used as a one-word substitute for the given group of words. The state of being subject to death



Difficulty : Moderate

Average Time : 99 Seconds

Options :

1. Mortality
2. Morbidity
3. Immortality
4. Deadly

Solution :

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

The word '**Mortality**' means '**the state of being subject to death**'.

For example: *The work is increasingly haunted by thoughts of mortality.*

Hence, the correct answer is **Option 1** i.e. **Mortality**.

Question 55 :

Select the most appropriate ANTONYM of the given word. Harmony

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Rapport
2. Friendship
3. Peace
4. Hatred

Solution :

The correct answer is **Option 4** i.e. **Hatred**.

- The word '**Harmony**' means '**a situation in which people are peaceful and agree with each other, or when things seem right or suitable together**'.

For example: *We must ensure that tourism develops in harmony with the environment.*

- The most appropriate antonym of the given word is '**Hatred**' which means '**an extremely strong feeling of dislike**'.

Hence, the correct answer is **Option 4** i.e. **Hatred**.

Question 56 :



Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'. If you are not able to go out, did not worry.

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. don't worried
2. do not worry
3. worrying not
4. No substitution

Solution :

The correct answer is **Option 2** i.e. **do not worry**.

- The error lies in the underline part due to the wrong usage of tense.
- The underlined part is in past tense form which is incorrect.
- The sentence implies a future event. So, we need to use the future tense.

The correct sentence is:- **If you are not able to go out, do not worry.**

Hence, the correct answer is **Option 2** i.e. **do not worry**.

**Question 57 :**

Select the INCORRECTLY spelt word.

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Refurbish
2. Sanctity
3. Esscalator
4. Automated

Solution :

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

The correct word is '**Escalator**' which means '**a moving staircase consisting of an endlessly circulating belt of steps driven by a motor, which conveys people between the floors of a public building.**'



Hence, the correct answer is **Option 3** i.e. **Esscalator**.

**Question 58 :**

Select the most appropriate option to fill in the blank. The government has hardened its \_\_\_\_\_ against the agitators and imposed a curfew in the area.

Difficulty : Moderate

Average Time : 49 Seconds

**Options :**

1. manner
2. orientataion
3. bearing
4. stance

**Solution :**

The correct answer is **Option 4** i.e. **stance**.

Let's see the meaning of the given words:

- **Manner** - a way in which a thing is done or happens.
- **Orientation** - the action of orienting someone or something relative to the points of a compass or other specified positions.
- **Bearing** - a person's way of standing or moving.
- **Stance** - the attitude of a person or organization towards something a standpoint.

The given blank needs a word that would describe the government's attitude.

From the given options, it is clear that **stance** is the best fit word for the given blank.

Hence, the correct answer is **Option 4** i.e. **stance**.

**Question 59 :**

Select the option that expresses the given sentence in passive voice. He gave Kaveri a beautiful yellow dress.

Difficulty : Moderate

Average Time : 69 Seconds

**Options :**

1. Kaveri has given a beautiful yellow dress by him.
2. Kaveri is given a beautiful yellow dress by him.
3. Kaveri was given a beautiful yellow dress by him.



Kaveri has been given a beautiful yellow dress by him.

**Solution :**

The correct answer is **Option 3** i.e. **Kaveri was given a beautiful yellow dress by him.**

Active form: **He gave Kaveri a beautiful yellow dress.**

Rules for changing Active form to Passive from:

- Simply exchange the places of the subject and the object. The subject should become the object and vice-versa while changing a sentence from Active to Passive voice or reverse.
- Now, convert the main verb into its past participle or third form while converting from active to passive voice.
- Use the word "by" before the subject in the passive sentence.
- The pronoun 'He' should be changed to pronoun 'him'.

Now, the given sentence is in simple past tense. When the active form is in " $V_2$ " form then the passive voice should follow the format "**was/were +  $V_3$** " form.

The passive form will be: **Kaveri was given a beautiful yellow dress by him.**

Hence, the correct answer is **Option 3** i.e. **Kaveri was given a beautiful yellow dress by him.**

**Question 60 :**

Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph. A. Inspector: "Were you sleeping when the robbers entered the bank?" B. Guard: "The iron grill lock was broken and the bank looked ransacked but the robbers could not take away anything as I had returned quickly." C. Inspector: "What did you see when you came back?" D. Guard: "No Sir. The bank had closed and I had just gone to relieve myself."

Difficulty : Moderate

Average Time : 115 Seconds

**Options :**

1. BADC
2. ABCD
3. CDAB
4. ADCB

**Solution :**

The correct answer is **Option 4** i.e. **ADCB.**

While arranging the parts of the passage, we should find some grammatical or contextual connections between them.



Also, the first sentence of a passage is usually independent and introduces a topic. The second one provides more information about it.

Steps to arrange the sentences in the correct order to form a meaningful and coherent paragraph:

- Sentence A is the independent sentence and introduces the questioning by the Inspector. So, **sentence A** is the first sentence after rearrangement.
- Sentence D provides the guard's answer to the question asked by the Inspector. Hence, **sentence D follows sentence A**.
- Now, after going through the option we find that only option 4 has the sequence that we got.
- Thus, the correct order after rearrangement is **option 4** i.e. **ADCB**.

The paragraph is: **Inspector: "Were you sleeping when the robbers entered the bank?" Guard: "No Sir. The bank had closed and I had just gone to relieve myself." Inspector. "What did you see when you came back?" Guard. "The iron grill lock was broken and the bank looked ransacked but the robbers could not take away anything as had returned quickly."**

Hence, the correct answer is **Option 4** i.e. **ADCB**.

**Question 61 :**

Select the most appropriate meaning of the given idiom. On cloud nine

Difficulty : Moderate

Average Time : 94 Seconds

**Options :**

1. Extremely happy
2. Flying with a parachute
3. Frequently flying by air
4. Extremely sad

**Solution :**

The correct answer is **Option 1** i.e. **Extremely happy**.

The idiom '**On cloud nine**' means '**to be extremely happy and excited**'.

For example: *He's been on cloud nine ever since she agreed to marry him.*

Therefore, **extremely happy** is the most appropriate meaning of the given idiom.

Hence, the correct answer is **Option 1** i.e. **Extremely happy**.

**Question 62 :**



Select the option that can be used as a one-word substitute for the given group of words. A musical composition made up of a series of songs or short pieces

**Difficulty : Moderate**

**Average Time : 58 Seconds**

**Options :**

1. Medley
2. Lyric
3. Band
4. Orchestra

**Solution :**

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

The word '**Medley**' means 'a mixture of different things, especially tunes put together to form a longer piece of music'.

For example: *He played a medley of popular songs on the piano.*

Hence, the correct answer is **Option 1** i.e. **Medley**.

**Comprehension :**

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. Almost everyone in the present world is familiar with the term 'Global Warming'. It (1)\_\_\_\_\_ to the gradual rise in the overall temperature of the atmosphere (2)\_\_\_\_\_ the planet Earth. It is true that there are (3)\_\_\_\_\_ activities taking place which have been increasing the temperature (4)\_\_\_\_\_. The first impact of global warming is melting of (5)\_\_\_\_\_ in a rapid way. This is extremely harmful to the earth as well as to its inhabitants.

**Question 63 :**

Select the most appropriate option to fill in blank no.1.

**Difficulty : Moderate**

**Average Time : 73 Seconds**

**Options :**

1. connects
2. means
3. seems

refers

**Solution :**

The correct answer is **Option 4** i.e. **refers**.

- The given blank needs the word that would imply what 'global warming' means.
- From the given option, it is clear that **refers** which means **to mention or talk about someone or something** is the best fit word for the given blank.

Hence, the correct answer is **Option 4** i.e. **refers**.

**Comprehension :**

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. Almost everyone in the present world is familiar with the term 'Global Warming'. It (1)\_\_\_\_\_ to the gradual rise in the overall temperature of the atmosphere (2)\_\_\_\_\_ the planet Earth. It is true that there are (3)\_\_\_\_\_ activities taking place which have been increasing the temperature (4)\_\_\_\_\_. The first impact of global warming is melting of (5)\_\_\_\_\_ in a rapid way. This is extremely harmful to the earth as well as to its inhabitants.

**Question 64 :**

Select the most appropriate option to fill in blank no.2.

**Difficulty : Moderate**

**Average Time : 76 Seconds**

**Options :**

1. on
2. in
3. at
4. of

**Solution :**

The correct answer is **Option 4** i.e. **of**.

- The given blank needs a preposition to indicate relationship between 'atmosphere' and 'Earth'.
- The correct preposition which should be used in the given blank is '**of**'.
- Use of preposition '**of**':
  1. Used for belonging to, relating to, or connected with.
  2. Used to indicate reference.
  3. Used to indicate an amount or number.



Hence, the correct answer is **Option 4** i.e. of.

**Comprehension :**

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. Almost everyone in the present world is familiar with the term 'Global Warming'. It (1)\_\_\_\_\_ to the gradual rise in the overall temperature of the atmosphere (2)\_\_\_\_\_ the planet Earth. It is true that there are (3)\_\_\_\_\_ activities taking place which have been increasing the temperature (4)\_\_\_\_\_. The first impact of global warming is melting of (5)\_\_\_\_\_ in a rapid way. This is extremely harmful to the earth as well as to its inhabitants.

**Question 65 :**

Select the most appropriate option to fill in blank no.3.

**Difficulty : Moderate**

**Average Time : 81 Seconds**

**Options :**

1. sudden
2. several
3. useful
4. separate

**Solution :**

The correct answer is **Option 2** i.e. **several**.

The given blank needs a word that would imply the number of activities going on.

Therefore, the word **several** which means '**more than two but not many**' is the best fit word for the given blank.

Hence, the correct answer is **Option 2** i.e. **several**.

**Comprehension :**

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. Almost everyone in the present world is familiar with the term 'Global Warming'. It (1)\_\_\_\_\_ to the gradual rise in the overall temperature of the atmosphere (2)\_\_\_\_\_ the planet Earth. It is true that there are (3)\_\_\_\_\_ activities taking place which have been increasing the temperature (4)\_\_\_\_\_. The first impact of global warming is melting of (5)\_\_\_\_\_ in a rapid way. This is extremely harmful to the earth as well as to its inhabitants.

**Question 66 :**

Select the most appropriate option to fill in blank no.4.



Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. purposely
2. gradually
3. properly
4. frequently

Solution :

The correct answer is **Option 2** i.e. **gradually**.

The given blank needs a word that would imply the slow increase in temperature.

From the options, the word **gradually** which means **slowly over a period of time or a distance** fits best in the given blank.

Hence, the correct answer is **Option 2** i.e. **gradually**.

Comprehension :

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. Almost everyone in the present world is familiar with the term 'Global Warming'. It (1)\_\_\_\_\_ to the gradual rise in the overall temperature of the atmosphere (2)\_\_\_\_\_ the planet Earth. It is true that there are (3)\_\_\_\_\_ activities taking place which have been increasing the temperature (4)\_\_\_\_\_. The first impact of global warming is melting of (5)\_\_\_\_\_ in a rapid way. This is extremely harmful to the earth as well as to its inhabitants.

Question 67 :

Select the most appropriate option to fill in blank no.5.

Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. rivers
2. glaciers
3. mountains
4. lakes

**Solution :**

The correct answer is **Option 2** i.e. **glaciers**.

- The given blank needs a word that would imply that there is snow which is being melted because of the rising temperature.
- From the given options, the word **glaciers** means 'a slowly moving mass or river of ice formed by the accumulation and compaction of snow on mountains or near the poles'.
- Therefore, the word glaciers is the best fit word for the given blank.

Hence, the correct answer is **Option 2** i.e. **glaciers**.

**Question 68 :**

If  $x$  is a real quantity, what is the minimum value of  $(25 \cos^2 x + 9 \sec^2 x)$ ?

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

1. 30
2. 15
3. 20
4. 40

**Solution :**

The correct answer is **Option 1** i.e **30**.

We have to find the minimum value of  $(25 \cos^2 x + 9 \sec^2 x)$

We know that the minimum value of  $a \cos^2 x + b \sec^2 x = 2\sqrt{ab}$

$$a = 25, b = 9$$

So,

$$2 \sqrt{25 \times 9}$$

$$2 \times 15 = 30$$

**Question 69 :**

if  $\sin^2 \theta - \cos^2 \theta - 3\sin \theta + 2 = 0$ ,  $0^\circ < \theta < 90^\circ$ , then what is the value of  $\frac{1}{\sqrt{\sec \theta - \tan \theta}}$  is:

**Difficulty : Moderate****Average Time : 53 Seconds****Options :**

$$\sqrt[4]{3}$$

2.  $\sqrt[2]{2}$

3.  $\sqrt[4]{2}$

4.  $2\sqrt{3}$

5.  $\sqrt[2]{3}$

**Solution :**

The correct answer is **Option 1** i.e.  $\sqrt[4]{3}$ .

$$\sin^2 - \cos^2 - 3\sin + 2 = 0$$

Let's assume the value of  $\theta = 30^\circ$

$$\sin^2 30^\circ - \cos^2 30^\circ - 3\sin 30^\circ + 2 = 0$$

$$\left(\frac{1}{4}\right) - \left(\frac{3}{4}\right) - \left(\frac{3}{2}\right) + 2 = 0$$

$$-2 + 2 = 0$$

$$0 = 0$$

LHS = RHS

We have to find the value of  $\frac{1}{\sqrt{\sec\theta - \tan\theta}}$

Put  $\theta = 30^\circ$

$$\frac{1}{\sqrt{\sec 30 - \tan 30}}$$

$$\frac{1}{\sqrt{\frac{2}{\sqrt{3}} - \frac{1}{\sqrt{3}}}}$$

$$\frac{1}{\sqrt{\frac{1}{\sqrt{3}}}}$$

$$\sqrt{\sqrt{3}}$$

$$\sqrt[4]{3}$$

**Question 70 :**

If  $(x + \frac{1}{x}) = \frac{17}{4}$ ,  $x > 1$ , then what is the value of  $(x - \frac{1}{x})$ ?

**Difficulty : Moderate**

**Average Time : 83 Seconds**

**Options :**

1.  $\frac{83}{4}$
2.  $\frac{15}{4}$
3.  $\frac{23}{4}$
4.  $\frac{94}{4}$

**Solution :**

The correct answer is **Option 2** i.e.  $\frac{15}{4}$ .

$$\left(x + \frac{1}{x}\right)^2 = \left(\frac{17}{4}\right)^2$$

2 subtracted from both sides.

$$\left(x^2 + \frac{1}{x^2} + 2\right) - 2 = \left(\frac{289}{16}\right) - 2$$

$$\left(x - \frac{1}{x}\right)^2 + 2 = \left(\frac{257}{16}\right)$$

$$\left(x - \frac{1}{x}\right)^2 = \left(\frac{257}{16}\right) - 2$$

$$\left(x - \frac{1}{x}\right)^2 = \left(\frac{225}{16}\right)$$

$$x - \frac{1}{x} = \frac{15}{4}$$

**Question 71 :**

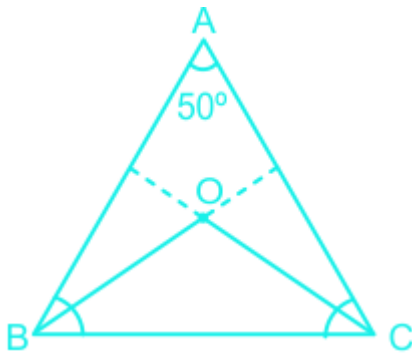
In  $\triangle ABC$ ,  $A = 50^\circ$ . If the bisectors of the angle B and angle C, meet at a point O, then  $\angle BOC$  is equal to:

**Difficulty : Moderate****Average Time : 63 Seconds****Options :**

1.  $130^\circ$
2.  $115^\circ$
3.  $65^\circ$
4.  $50^\circ$

**Solution :**

The correct answer is **Option 2** i.e.  $115^\circ$



$$A = 50$$

We know that

$$\angle BOC = 90^\circ + (A/2)$$

$$\angle BOC = 90^\circ + (50^\circ/2)$$

$$\angle BOC = 115^\circ$$

### Question 72 :

The area of a square shaped field is 1764 m<sup>2</sup>. The breadth of rectangular park is 1/6th of the side of the square field and the length is four times its breadth. What is the cost (in ₹) of leveling the park at ₹130 per m<sup>2</sup>?

Difficulty : Moderate

Average Time : 57 Seconds

### Options :

1. 6342
2. 4768
3. 2940
4. 5880

### Solution :

The correct answer is **Option 4** i.e **5880**

The area of a square shaped field is 1764 m<sup>2</sup>

$$a^2 = 1764$$

$$a = 42 \text{ m}$$

$$\text{The breadth of rectangular park} = (1/6) \times 42 = 7 \text{ m}$$

The length of the rectangular park =  $4 \times 7 = 28$  m

The area of the rectangular park =  $7 \times 28 = 196$  m<sup>2</sup>

The cost (in ₹) of levelling the park at ₹130 per m<sup>2</sup> =  $196 \times 30 = ₹ 5880$

**Question 73 :**

Study the following table and answer the question: Percentage of marks obtained by six students in five subjects A, B, C, D & E.

Subjects	Students	A (Out of 75)	B (Out of 80)	C (Out of 100)	D (Out of 50)	E (Out of 150)
Manju		68	85	86	72	92
Amit		64	65	80	96	80
Rekha		88	75	65	74	90
Anuj		80	55	68	66	84
Abhi		72	65	72	54	74
Vikram		60	70	73	84	86

The average marks of Manju, Rekha and Abhi in subject B are?

**Difficulty : Moderate****Average Time : 63 Seconds****Options :**

- 56
- 54
- 60
- 62

**Solution :**

The correct answer is **Option 3** i.e **60**

Total marks obtained by Manju in subject B =  $80 \times (85/100) = 68$

Total marks obtained by Rekha in subject B =  $80 \times (75/100) = 60$

Total marks obtained by Abhi in subject B =  $80 \times (65/100) = 52$

So, the required average =  $\left(\frac{68+60+52}{3}\right)=60$

**Question 74 :**

A fruit merchant bought some bananas. One fifth of them got rotten and were thrown away. He sold two fifth of the bananas with him at 15% profit and the remaining bananas at 10% profit. Find his overall loss profit percent?

**Difficulty : Moderate****Average Time : 49 Seconds****Options :**

- Loss, 10.4%
- Profit, 10.4%



Profit, 9.6%

4. Loss, 9.6%

**Solution :**

The correct answer is **Option 1** i.e **Loss, 10.4%**

Let's assume the total number of bananas = 100

One fifth of bananas got rotten and were thrown away.

So, the remaining Bananas =  $100 - 100 \times (1/5) = 80$

He sold two fifth of the bananas with him at 15% profit and the remaining bananas at 10% profit.

So, the selling price of the two fifth of the bananas =  $80 \times (2/5) \times (100+15)/100 = \text{Rs } 36.8$

Remaining Bananas =  $1 - (2/5) = 3/5$

the selling price of the remaining (three fifth) of the bananas =  $80 \times (3/5) \times (100+10)/100 = 52.8$

Total Sp =  $36.8 + 52.8 = 89.6$

Loss percentage =  $\left(\frac{100-89.6}{100}\right) \times 100 = 10.4\%$

**Question 75 :**

A sum of ₹125600 is invested on simple interest partly at 7% per annum and the remaining at 9% per annum. The total interest at the end of 3 years is ₹15832. How much money (in ₹) was invested at 9% per annum?

Difficulty : Moderate

Average Time : 66 Seconds

**Options :**

1. 7600
2. 9600
3. 18000
4. 16000

**Solution :**

The correct answer is **Option 1** i.e **7600**.

Let the amount invested at 7% per annum be 'x' then the amount invested at 9% will be '25600 - x'.

Simple Interest =  $(\text{Principal} \times \text{Interest rate} \times \text{time})/100$





$$5832 = (x \times 3 \times 7)/100 + ((25600 - x) \times 3 \times 9)/100$$

$$1944 = 7x/100 + 9(25600 - x)/100$$

$$-2x/100 = -360$$

$$x = 18000$$

Amount invested at 9% will be 25000 - 18000

Rs 7600

**Question 76 :**

G20 Leaders' Summit 2020 was held virtually on 20th and 21st November 2020 and was presided by\_\_\_\_\_.

**Difficulty : Moderate**

**Average Time : 49 Seconds**

**Options :**

1. Pakistan
2. Saudi Arabia
3. Iran
4. India

**Solution :**

The correct answer is **option 2** i.e. **Saudi Arabia**

**King Salman of Saudi Arabia** presided the G20 Leader's 2020 summit. The meeting aimed at finding ways to tackle the economic implications of the virus on global economy, with people losing their jobs and incomes due to lockdowns and curfews imposed globally.

**Question 77 :**

When a river originates from a hill and flows in all directions, the drainage pattern is known as \_\_\_\_\_.

**Difficulty : Moderate**

**Average Time : 45 Seconds**

**Options :**

1. centripetal
2. dendritic
3. trellis
4. radial

**Solution :**

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

- **When a river originates from a hill and flows in all directions, the drainage pattern is known as radial.**
- A **radial drainage pattern** develops around a central elevated point like on the flanks of a dome or a volcanic cone. The river originating from the hills is characterised by out flowing of the river in all direction, away from a central point.
- The rivers originating from the Amarkantak Mountain range is an example of a radial drainage pattern.

**Question 78 :**

Which of the following plant hormones regulates growth, particularly by stimulating cell elongation in stems?

Difficulty : Moderate

Average Time : 56 Seconds

**Options :**

1. Gibberellin
2. Cytokinin
3. Ethylene
4. Auxin

**Solution :**

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

- **Auxin is a plant hormone that promotes cell growth, cell expansion, stem elongation, and inhibit growth of lateral buds.**
- **Auxins** are produced in parts of the plant that are actively growing, like stem, buds, and root tips to promote cell elongation.

**Question 79 :**

Which of the following books is authored by Dalai Lama and launched by him in February 2021?

Difficulty : Moderate

Average Time : 47 Seconds

**Options :**

1. A Little Book of Courage
2. Connecting, Communicating, Changing
3. The Little Book of Hope
4. The Little Book of Encouragement



## Solution :

The correct answer is **option 4** i.e. **The Little Book of Encouragement**

## The Little Book of Encouragement

- The 'Book of Encouragement' comprises 130 quotes.
- Renuka Singh is the edito of the book and Penguin Random House is the publisher.
- It promotes human values, enlightens on a key to happiness and comments on Sino-India ties.
- Dalai Lama has always praised India's rich civilisational heritage.
- The Dalai Lama rightly points to our 'emotional hygiene that helps the mind and heart to gain inner strength, peace, clarity, and happiness.

## Question 80 :

At which of the following places was the 'Street Theatre and Performing Arts Fellowship' scheme launched in January 2021 to give artists an opportunity to showcase their craft?

Difficulty : Moderate

Average Time : 65 Seconds

## Options :

1. Haryana
2. Goa
3. Chandigarh
4. Delhi

## Solution :

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

1. Delhi Deputy CM Manish Sisodia launched the "Street Theatre and Performing Arts Fellowship" scheme on 15th January 2021.
2. It aims to give artists an opportunity to showcase their craft.
3. The flagship scheme has been started by the Sahitya Kala Parishad under the Department of Arts, Culture and Languages.
4. Nearly **500 artists** have been selected for this scheme.
5. It offers a monthly stipend of Rs 5,000 to those who are selected for it.
6. The selected artists had performed in a team of 10 every week at different public places in Delhi

## Question 81 :

'Panche' is a traditional sarong worn by the men in the state of \_\_\_\_\_



Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. Assam
2. Sikkim
3. Karnataka
4. Kerala

Solution :

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

- 'Panche' is a traditional sarong worn by the men in the state of Karnataka.
- Panche is a rectangular non-stitched piece of cloth that is 4.5m metres long. The cloth is worn by wrapping around the legs and knotting around the waist, mostly worn by men of Karnataka.
- 'Panche' is another name for Dhoti.

Question 82 :

Who among the following was the first Indian badminton player to qualify for two events - mixed doubles and women's doubles - in the Olympics?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. Ashwini Ponnappa
2. PV Sindhu
3. Jwala Gutta
4. Saina Nehwa

Solution :

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

- Jwala Gutta become the first and the only Indian to qualify in two events i.e women's doubles as well as mixed doubles at the 2012 London Olympics.
- Jwala Gutta is an Indian badminton player, born on 7 September 1983, at Wardha, Maharashtra.
- She has won bronze at Women's doubles in the 2011 London, Badminton World Championship. She has a total of 316 match wins in both women's doubles as well as mixed doubles.

Question 83 :



According to which of the following Articles of the Constitution of India shall a Money Bill not be introduced in a Legislative Council?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Article 333
2. Article 198
3. Article 189
4. Article 451

Solution :

The correct answer is **option 2** i.e. **Article 198**

- According to **Article 198 - Special procedure in respect of Money Bills. A Money Bill shall not be introduced in a Legislative Council.**
- According to **Article 198** of the Indian Constitution, a **Money Bill can only be introduced in the Legislative Assembly** of a State, on the recommendation of the Governor.

Question 84 :

Muhammad Ghori attacked Tabarhinda (Bhatinda) in 1191, a strategic point for \_\_\_\_\_.

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Prithviraj Chauhan
2. Maharana Pratap Singh
3. Hem Chandra Vikramaditya
4. Rana Kumbha

Solution :

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

- In **1191 AD, Muhammad Ghori attacked a fort at Tabarhinda (Bhatinda), a strategic point for Prithviraja III, popularly known as Prithviraj Chauhan.** This led to the First Battle of Tarain in 1191 AD, where Prithviraj Chauhan defeated Muhammad Ghori.
- Muhammad Ghori defeated Prithviraj Chauhan in the Second Battle of Tarain in 1192 AD.
- Prithviraj Chauhan was the king of Chahamanas/Chauhan dynasty from c. 1177 to 1192 AD.



Muhammad Ghori was the Sultan of the Ghurid Empire from 1173 to 1206 AD.

**Question 85 :**

According to Ashokan edicts, how many years after becoming the king did Ashoka wage war on Kalinga?

Difficulty : Moderate

Average Time : 61 Seconds

**Options :**

1. seven
2. Five
3. Eight
4. Six

**Solution :**

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

- According to Ashoka's Major Rock Edict 13, the Kalinga war occurred 8 years after Ashoka's ascending to the throne.
- The Kalinga War was fought between the Mauryan Empire under Ashoka and the state of Kalinga in 261 B.C.
- After witnessing the bloodshed caused during the Kalinga War, Ashoka converted to Buddhism.

**Question 86 :**

What do you call the property of an organism of self-regulation and the tendency to maintain a steady state within an external environment which is liable to change?

Difficulty : Moderate

Average Time : 53 Seconds

**Options :**

1. Consciousness
2. Metabolism
3. Homeostasis
4. Irritability

**Solution :**

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

1. **Homeostasis** refers to the body's need to reach and maintain a certain state of equilibrium.



**Consciousness** is sentience or awareness of internal and external existence.

3. **Metabolism** is the process by which your body converts what you eat and drink into energy.

4. **Irritability** is a characteristic of living organisms in being aware of and being able to respond to a stimulus that tends to disturb the steady-state or homeostasis which all organisms prefer for maintaining life.

**Question 87 :**

Which of the following organizations releases the Global Innovation Index?

Difficulty : Moderate

Average Time : 56 Seconds

**Options :**

1. WTO
2. INSEAD, Cornell University, WIPO
3. UNDP
4. WEF

**Solution :**

The correct answer is **option 2** i.e. **INSEAD, Cornell University, WIPO**

- The Global Innovation Index ranks countries as per their success and capacity in innovation.
- Global Innovation Index is published annually.
- The index was started in 2007 by INSEAD and World Business.
- **The Global Innovation Index is Co-published by INSEAD, Cornell University and WIPO.**
- Switzerland ranked 1st and India ranked 46th in the Global Innovation Index 2021.

**Question 88 :**

\_\_\_\_\_ boundaries occur when plates collide and one plate is pushed under the other.

Difficulty : Moderate

Average Time : 53 Seconds

**Options :**

1. Convergent
2. Continental
3. Transform
4. Divergent

**Solution :**

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



- When two tectonic plates move toward each other and collide, they form a **convergent plate boundary**.
- A **divergent boundary** occurs when two tectonic plates move away from each other.
- **Transform boundaries** are places where plates slide sideways past each other.

**Question 89 :**

Which book written by Douglas Stuart won him the Booker Prize 2020?

Difficulty : Moderate

Average Time : 46 Seconds

**Options :**

1. Shuggie Bain
2. The White Tiger
3. The Testaments
4. Hamnet

**Solution :**

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

- **Douglas Stuart won the Booker Prize 2020 for his novel Shuggie Bain.**
- Shuggie Bain is Douglas Stuart's his debut novel about a boy in 1980s Glasgow trying to support his mother as she struggles with addiction and poverty. It was published in 2020.
- Douglas Stuart is a Scottish-American writer.

**Question 90 :**

Which of the following liquids has the highest pH?

Difficulty : Moderate

Average Time : 49 Seconds

**Options :**

1. Orange juice
2. Lemon juice
3. Milk of magnesia
4. Human blood

**Solution :**

The correct answer is **option 3** i.e. **Milk of magnesia**





- The pH of orange juice is between 3.30 and 4.15.
- The pH of lemon juice is between 2 and 3.
  - **The pH of Milk of Magnesia is 10.5**
  - The pH of human blood ranges between 7.35 to 7.45.
  - **Milk of magnesia**, also known as magnesium hydroxide act as an antacid or as a saline laxative and is used as medication to treat constipation.

**Question 91 :**

The Indian Forest Act 1927 was enacted after repealing which of the following Indian forest acts?

Difficulty : Moderate

Average Time : 54 Seconds

**Options :**

1. Indian Forest Act, 1865
2. Indian Forest Act, 1882
3. Indian Forest Act, 1878
4. Indian Forest Act, 1922

**Solution :**

The correct answer is **option 3** i.e. **Indian Forest Act, 1878**

- **The Indian Forest Act, 1927 was enacted after repealing the Indian Forest Act, 1878.**
- The Indian Forest Act, 1927 was enacted to consolidate the law relating to forests, reserve areas, to regulate movement and transit of forest produce the duty leviable on timber and other forest produce; and to preserve and safeguard the forests in India.
- The act also defined the procedure to be followed for declaring an area as Reserved Forest, Protected Forest or a Village Forest.

**Question 92 :**

In medicine, \_\_\_\_\_ is a device such as a small metal plate or needle that carries electricity from an instrument to a patient for treatment or surgery.

Difficulty : Moderate

Average Time : 62 Seconds

**Options :**

1. an electrode
2. a machmeter
3. an electrolyte



a venturimeter

**Solution :**

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

- In medicine, an **electrode** is a device such as a small metal plate or needle that carries electricity from an instrument to the patient for treatment or surgery.
- It can also carry electrical signals from muscles, brain, heart, skin or other body parts to recording devices to help diagnose certain conditions.
- It transfers the ionic current energy into electrical current in the body.

**Question 93 :**

All the non-zero vectors are called \_\_\_\_\_.

**Difficulty : Moderate**

**Average Time : 51 Seconds**

**Options :**

1. equal vectors
2. coplanar vectors
3. proper vectors
4. co-initial vectors

**Solution :**

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

- A vector is a quantity that has both magnitude and direction. Vectors are used to represent the position, displacement, velocity, and acceleration of objects.
- **All the non-zero vectors are called proper vectors.**

**Question 94 :**

Henry Moniz has been appointed as the first-ever Chief Compliance Officer of which of the following tech giants in January 2021?

**Difficulty : Moderate**

**Average Time : 45 Seconds**

**Options :**

1. Facebook Inc.

Google LLC

3. Apple Inc

4. Twitter Inc.

### Solution :

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

Facebook has appointed **Henry Moniz** as its first chief compliance officer amid increased scrutiny from federal and worldwide regulators and competition from other social media giants.

### Additional information about Facebook

Facebook is a social networking service that was created by Mark Zuckerberg in 2004.

Mark Zuckerberg is the CEO of Facebook.

Facebook's first IPO came on 17 May 2012.

Facebook changed its name to "Meta" in October 2021 to align the company with its ambitions to build the "metaverse".

### Question 95 :

Where is the headquarters of the Badminton World Federation located?

Difficulty : Moderate

Average Time : 59 Seconds

### Options :

1. Malaysia
2. Singapore
3. Switzerland
4. Japan

### Solution :

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

- **The Badminton World Federation headquarters is located in Kuala Lumpur, Malaysia.** The headquarters of the organization was relocated from Cheltenham, UK to Kuala Lumpur, Malaysia on October 1, 2005.
- The Badminton World Federation is the international governing body for badminton.
- It was founded as the International Badminton Federation in 1934, with its headquarters in Cheltenham, UK.
- International Badminton Federation was merged with the World Badminton Federation in 1981.

The name of the organization was changed to Badminton World Federation on 24 September 2006.

### Question 96 :

In which of the following years was the micro-credit scheme 'Street Vendor's AtmaNirbhar Nidhi' ('PM SVANidhi') launched?

Difficulty : Moderate

Average Time : 61 Seconds

### Options :

1. 2020
2. 2014
3. 2015
4. 2017

### Solution :

The correct answer is **option 1** i.e. **2020**

- The PM Street Vendor's Atma Nirbhar Nidhi (SVANidhi) Scheme was launched in **June 2020** as a Micro-Credit facility which aims to empower street vendors to recover losses incurred as a result of the COVID-19 pandemic.
- The key objectives of the PM SVANidhi Scheme is to facilitate working capital loans upto INR 10,000.

### Question 97 :

Which Schedule of the Indian Constitution demarcates the powers of the Union and the States, that is Union List, State List and Concurrent List?

Difficulty : Moderate

Average Time : 49 Seconds

### Options :

1. Fourth Schedule
2. First Schedule
3. Seventh Schedule
4. Third Schedule

### Solution :

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

- **The Seventh Schedule under Article 246 of the Indian Constitution defines and specifies allocation of powers and functions between Union & States.**

It contains three lists- Union List, State List and Concurrent List.

- The Union List has 100 subjects (originally 97 subjects).
- The State List has 61 subjects (originally 66 subjects).
- The Concurrent List has 52 subjects

### Question 98 :

One of the major events of Ashoka's reign was the convening of the \_\_\_\_\_ Buddhist Sangha (council) in 250 BCE in the capital Pataliputra.

Difficulty : Moderate

Average Time : 54 Seconds

### Options :

1. Third
2. Fourth
3. Second
4. First

### Solution :

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

One of the major events of Ashoka's reign was the convening of the **third** Buddhist sangha (council) in 250 BCE in the capital Pataliputra.

- Ashoka's deepening commitment to Buddhism meant that royal patronage was extended to the Buddhist establishment.
- An important outcome of this sangha was the decision to expand the reach of Buddhism to other parts of the region and to send missions to convert people to the religion.

### Question 99 :

Mukhyamantri Bagayat Vikas Mission (Horticulture Development Mission) scheme was launched by which of the following state governments in January 2021?

Difficulty : Moderate

Average Time : 55 Seconds

### Options :

1. Maharashtra
2. Gujarat



Uttar Pradesh

4. Bihar

**Solution :**

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

- Mukhyamantri Bagayat Vikas Mission is also known as Horticulture Development Mission.
- It was launched by former Chief Minister **Vijay Rupani**.
- This scheme has been launched with the objective of doubling the farmer's income who are engaged in horticulture and medicinal farming.

**Question 100 :**

The area served by a canal system through supply of water for irrigation and other purposes is called a \_\_\_\_\_

**Difficulty :** Moderate

**Average Time :** 47 Seconds

**Options :**

1. **command area**
2. gross irrigated area
3. net sown area
4. net irrigated area

**Solution :**

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

The area over which canal irrigation water flows by gravity is known as the command area.

There are three types of command areas in irrigation.

1. Gross Command Area
2. Culturable Command Area
3. Net Command Area

## Ssc Cgl Tier I Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2021-08-23 in the Morning exam is as follows:

Page No: 70

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- 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. 16 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 - 2
2. Analogy - 6
3. Classification - 5
4. Blood Relations - 1
5. Syllogism - 1
6. Dictionary Based - 1
7. Figure Based - 2
8. Series - 5
9. Mathematical Reasoning - 2

## Quantitative Aptitude

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



## English Language

1. Reading Comprehension - 24
2. Vocab - 1

## General Awareness

1. History - 1
2. NDA GK - 11

# 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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Know Your City  
Know Your Leader  
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Daily Editorial  
Latest Notifications  
Exam Dates  
Admit Card  
Exam Results  
Exam Cutoff  
Exam Eligibility  
Exam Pattern  
Answer Key  
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## Further Guidance on Ssc Cgl Tier I Previous Year Question Paper

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### 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.