

# 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 2021-08-16 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 :

A copper wire of radius 6cm and height 8cm is melted to form spheres of radius 2cm. How many such spheres can be formed?

Difficulty : Moderate

Average Time : 45 Seconds

### Options :

1. 27
2. 31
3. 14
4. 36

### Solution :

The correct answer is **option 1** i.e 27.

A copper wire is in the shape of cylinder and when we melt any shape into any other, their volume remain same.

Let x be the number of spheres which were formed.

Concept	Formula used
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$r^2h = x \times (4r^3/3)$ $6^2 \times 8 \times 3/4 = x \times 2$ $36 \times 3/4 = x$ $x = 27.$	Volume of cylinder = $r^2h$ Volume of spheres = $4r^3/3$
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**Question 2 :**

In a circle with center O, AB and CD two parallel chords on the same side of diameter, If AB = 12 cm, CD = 18 cm and distance between the chords AB and CD is 3 cm, then find the radius of the circle (in cm)

**Difficulty : Moderate**

**Average Time : 69 Seconds**

**Options :**

1. 12
2. 313
3. 15
4. 9

**Solution :**

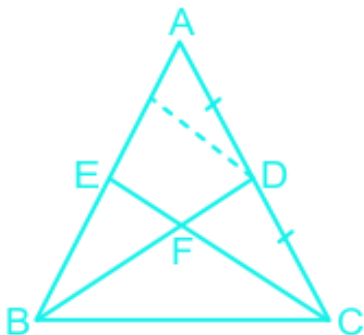
The correct answer is **option 2** i.e. **313**

**Given :**

AB = 12 cm, CD = 18 cm

Distance between the chords AB and CD is 3 cm

**Calculations :**





OP is perpendicular drawn from centre and OB is radius

$$AP = PB = 12/2 = 6 \text{ cm}$$

POB, using pythagoras theorem,

$$OB^2 = PB^2 + OP^2$$

$$OB^2 = 6^2 + OP^2$$

Similarly for chord CD

$$CQ = QD = 18/2 = 9 \text{ cm}$$

In QDC,

$$OD^2 = QD^2 + OQ^2$$

$$OD^2 = 9^2 + OQ^2$$

Then,  $OP = OQ + QP$

$$OP = OQ + 3$$

$OD = OB$  (Radii of the circle)

$$6^2 + OP^2 = 9^2 + OQ^2$$

$$(OQ + 3)^2 - OQ^2 = 45$$

$$OQ^2 + 9 + 6OQ - OQ^2 = 45$$

$$9 + 6OQ = 45$$

$$6OQ = 36$$

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

Then,  $OD^2 = 9^2 + 6^2 = 117$

$$OD = \sqrt{117} = 3\sqrt{13} \text{ cm}$$

**Question 3 :**

If  $x^2 + 4y^2 = 53$  and  $x - 2y = 5$ , then what is the value of  $x^3 - 8y^3$  ?

**Difficulty :** Moderate

**Average Time :** 98 Seconds

**Options :**

1. 155



335

3. -85

4. 85

**Solution :**The correct answer is **option 2** i.e. **335****Given :**

$$x^2 + 4y^2 = 53$$

$$x - 2y = 5$$

**Formula used :**

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

$$(a - b)^3 = a^3 - b^3 - 3ab(a - b) \quad \text{----- (2)}$$

**Calculations :**

Using equation (1)

$$(x - 2y)^2 = x^2 + 4y^2 - 2(x)(2y)$$

$$25 = 53 - 4xy$$

$$4xy = 28$$

$$xy = 7$$

Using equation (2)

$$(x - 2y)^3 = x^3 - 8y^3 - 3(x)(2y)(x - 2y)$$

$$125 = x^3 - 8y^3 - 6xy(5)$$

$$125 = x^3 - 8y^3 - 30(7)$$

$$x^3 - 8y^3 = 210 + 125$$

**335****Question 4 :**

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 dancers are talented. Some girls are dancers. Conclusions: I. Some girls are talented. II. All

talented are girls. III. All girls are talented.

Difficulty : Moderate

Average Time : 94 Seconds

Options :

1. Only conclusion III follows
2. Only conclusion II follows
3. Only conclusion I follows
4. Both conclusions I and II follow

Solution :

The correct answer is **Option 3** i.e. **Only conclusion I follows**.

Venn Diagram for the given statements will be as follows:



Conclusions:

- I. Some girls are talented. **True** (As it is given that some girls are dancers and all dancers are talented)
- II. All talented are girls. **False** (It is a possibility but not definite)
- III. All girls are talented. **False** (It is a possibility but not definite)

Question 5 :

Select the option in which the numbers are related in the same way as are the numbers of the following set. (16, 12, 32)

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. (20, 15, 42)
2. (76, 57, 176)
3. (36, 27, 77)



(56, 24, 68)

**Solution :**

The correct answer is **option 3** i.e. **(36, 27, 77)**.

The logic followed in given set (16, 12, 32) is

$$12 \quad (16 \div 4) \times 3$$

$$32 \quad (12 \times 3) - 4$$

Checking for options:

Option 1: (20, 15, 42)  $(20, (20 \div 4) \times 3, (15 \times 3) - 3)$  is not following the logic.

Option 2: (76, 57, 176)  $(76, (76 \div 4) \times 3, (57 \times 3) + 5)$  is not following the logic.

Option 3: (36, 27, 77)  $(36, (36 \div 4) \times 3, (27 \times 3) - 4)$  is following the logic.

Option 4: (56, 24, 68)  $(56, (56 \div 7) \times 3, (24 \times 3) - 4)$  is not following the logic.

Therefore, Option 3 will be the correct option.

**Question 6 :**

Select the number from among the given options that can replace the question mark (?) in the following series. 37, 52, 74, 104, 143, ?

**Difficulty : Moderate**

**Average Time : 60 Seconds**

**Options :**

1. 168

2. 176

3. 202

4. 192

**Solution :**

The correct answer is **option 4** i.e. **192**.

Progression of the given number series is as following:

$$37 + 15 = 52$$

$$52 + 15 + 7 = 74$$

$$74 + 15 + 7 + 8 = 104$$

$$104 + 15 + 7 + 8 + 9 = 143$$

$$143 + 15 + 7 + 8 + 9 + 10 = 192$$

**192** will replace the question mark in the given series.

**Question 7 :**

Select the option that is related to the third word in the same way as the second word is related to the first word. Awful : Nice :: Nomadic : ?

**Difficulty : Moderate**

**Average Time : 45 Seconds**

**Options :**

1. Nocturnal
2. Careless
3. Homeless
4. Settled

**Solution :**

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

We are given that, Awful : Nice.

Awful means unpleasant which is opposite to Nice. Similarly,

Nomadic means moving from one place to another rather than living in one place all of the time, which is opposite to Settled (which means steady or secure style of life at home) among the given options.

Meaning of other terms are:

Nocturnal: active at night

Careless: Not giving sufficient attention

Homeless: a person without a home

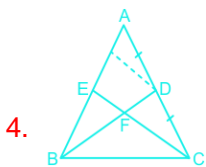
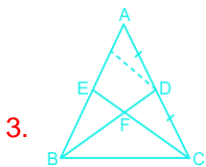
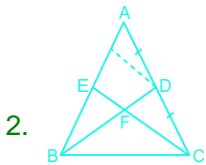
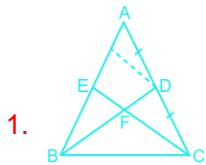
**Question 8 :**

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

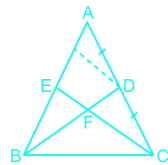
**Difficulty : Moderate**

**Average Time : 55 Seconds**

Options :



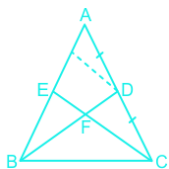
Solution :



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

### Understanding

Option 2 is embedded in the given figure, as shown below:



### Question 9 :

The following Venn diagram shows the number of families who have visited three different places ( Srinagar, Shimla, Gangtok). What is the number of families who have visited at least two of the places out of Srinagar, Shimla, and Gangtok?



Difficulty : Moderate

Average Time : 75 Seconds

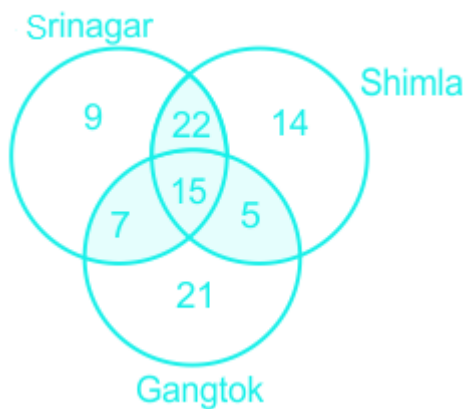
Options :

1. 27
2. 49
3. 15
4. 34

Solution :

The correct answer is **option 2** i.e. **49**.

Given Venn diagram is:



Here, the number of families who have visited at least two of the places out of Srinagar, Shimla, and Gangtok =  $22 + 5 + 7 + 15$   
= 49.

Question 10 :

Pointing to the photograph of a girl, Raghav said, "She is my father's mother's daughter's only brother's daughter". How is Raghav's father related to that girl's mother?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Son
2. Maternal uncle

Husband

4. Father

**Solution :**

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

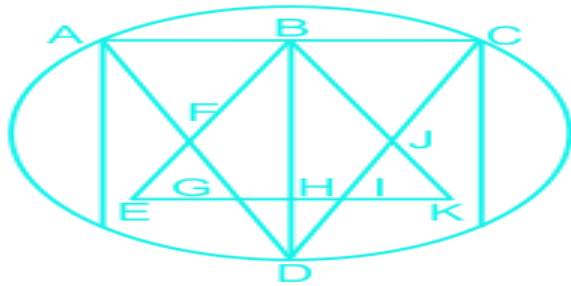
Understanding



For understanding:

Symbol in Diagram	Meaning
○	Female
□	Male
==	Married Couple
—	Siblings
	Difference of A Generation

The family diagram is as follows:



From the statements:

Raghav's father's mother's daughter's only brother

is Raghav's father himself.

The girl in photograph is Raghav's father's only daughter i.e.

Raghav's sister.

So, girl's mother will be Raghav's father's wife.

Thus, **Husband** is the correct relation.

**Question 11 :**

Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary. 1. Success 2. Surreal 3. Succumb 4. Suction 5. Surrogate 6. Surprise



Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. 1, 3, 4, 6, 2, 5
2. 1, 4, 3, 6, 2, 5
3. 1, 3, 6, 4, 2, 5
4. 1, 3, 4, 6, 5, 2

Solution :

The correct answer is **option 1** i.e. 1, 3, 4, 6, 2, 5

The dictionary order of the given words would be:

1. **Success**
3. **Succumb**
4. **Suction**
6. **Surprise**
2. **Surreal**
5. **Surrogate**

Hence, the correct answer is **1, 3, 4, 6, 2, 5**.

Question 12 :

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 : 50 Seconds

Options :

1. 5237 : 4003
2. 4327 : 2003
3. 3527 : 2293
4. 2347 : 1113

**Solution :**

The correct answer is **Option 2** i.e. **4327 : 2003**.

Checking the options for difference between the numbers in given number pairs:

Option 1: 5237 : 4003  $5237 - 4003 = 1234$

Option 2: 4327 : 2003  $4327 - 2003 = \mathbf{2324}$

Option 3: 3527 : 2293  $3527 - 2293 = 1234$

Option 4: 2347 : 1113  $2347 - 1113 = 1234$

Number pairs in options 1, 3 and 4 are alike with a difference of 1234 between them.

Hence, **4327 : 2003** is the correct answer.

**Question 13 :**

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

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

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

**Solution :**

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

**Understanding**

The mirror image of the given figure along with mirror MN is shown below:



**Note:** Since the mirror is placed vertically beside the question figure, the image will be formed by inverting the question figure horizontally about mirror MN.

That means the left side of the figure will become the right side and vice versa.

### Question 14 :

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

**Difficulty :** Moderate

**Average Time :** 85 Seconds

### Options :

1. Professor : University
2. Criminal : Police Station
3. Doctor : Treatment
4. Engineer : Design

### Solution :

The correct answer is **Option 1** i.e. **Professor : University**.

Given pair of word Dentist : Hospital follows the logic of profession and place of work.

Only Option 1 i.e. Professor : University Follows the same logic as Professor is profession and University is it's place of work.

Option 2: Criminal : Police Station doesn't follow the same logic.

Option 3: Doctor : Treatment doesn't follow the same logic.

Option 4: Engineer : Design doesn't follow the same logic.



Hence, the correct answer is **Professor : University**.

**Question 15 :**

Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.  
BOARD, BOARW, BOAIW, ?, BLZIW, YLZIW

Difficulty : Moderate

Average Time : 62 Seconds

**Options :**

1. BLZRW
2. BOZRW
3. BOAIW
4. BOZIW

**Solution :**

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

Given series: BOARD, BOARW, BOAIW, ?, BLZIW, YLZIW

Let's arrange all the alphabets such that A to M is exactly opposite to Z to N.

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

On the basis of our arrangement, operation on different terms of the letter BOARD is done one by one in the following manner:

BOARD

BOARW W is opposite to D.

BOAIW I is opposite to R.

**BOZIW** Z is opposite to A.

BLZIW L is opposite to O.

YLZIW Y is opposite to B.

**Question 16 :**

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 : 73 Seconds**

**Options :**

1. Lethargic
2. Passive
3. Vivacious
4. Sluggish

**Solution :**

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

Meaning of the given options are:

Option 1: Lethargic - an unusual lack of energy and mental alertness.

Option 2: Passive - showing no interest, reaction or feeling

Option 3: Vivacious - a person full of energy

Option 4: Sluggish - moving or working more slowly than usual

Here, lethargic, passive and sluggish are synonyms of 'lazy', hence alike in meaning,

whereas Vivacious is not a synonym of 'lazy'.

Hence, The correct answer is **Vivacious**.

**Question 17 :**

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 : 58 Seconds**

**Options :**

1. BEHK
2. QTWZ
3. XADG
4. NPSV



**Solution :**

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

Given letter in options are:

BEHK B, B + 3 = E, E + 3 = H, H + 3 = K

QWZ Q, Q + 3 = T, T + 3 = W, W + 3 = Z

XADG X, X + 3 = A, A + 3 = D, D + 3 = G

NPSV N, N + 2 = P, P + 3 = S, S + 3 = V

Option 4 is different from other letter clusters.

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

**Question 18 :**

Find the number of triangles in the given figures.

**Difficulty : Moderate**

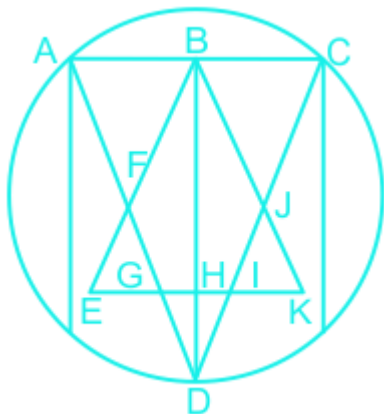
**Average Time : 51 Seconds**

**Options :**

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

**Solution :**

The correct answer is **Option 4** i.e. **15**.



Triangles ACD, ABD, CBD, AFB, BJC, GHD, HID, GID, EBK, EFG, IJK, EHB, KHB, DFB and BJD are in the above diagram. Therefore, there are total 15 diagrams in the given figure.

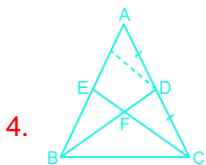
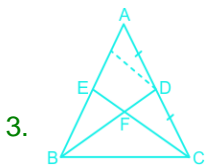
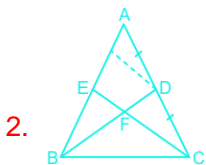
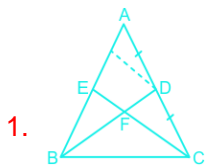
**Question 19 :**

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

Difficulty : Moderate

Average Time : 46 Seconds

**Options :**



**Solution :**

The correct answer is **option 3**

**Understanding**

The figure in option 3 will complete the pattern given in the question figure which will be as following:



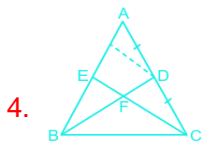
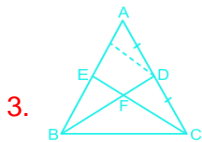
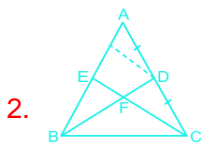
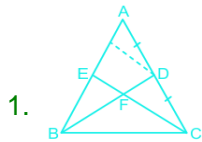
Question 20 :

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 : 73 Seconds**

**Options :**



**Solution :**

The correct answer is **option 1**

**Understanding**

After unfolding, the paper will appear as follows:



In this type of question, the order of unfolding the paper will be reverse of the order in which it was folded.

**Question 21 :**

Select the option in which the numbers are NOT related in the same way as are the numbers of the following set. (7, 21, 49)

**Difficulty : Moderate**

**Average Time : 71 Seconds**

**Options :**

1. (9, 27, 72)
2. (6, 18, 36)
3. (5, 15, 25)
4. (8, 24, 64)

**Solution :**

The correct answer is **Option 1** i.e. **(9, 27, 72)**.

Given set's logic is (7, 21, 49)  $(7, 7 \times 3, 7^2)$

Checking for options:

Option 1: (9, 27, 72)  $(9, 9 \times 3, 9 \times 8)$

is not following the logic with respect to given set.

Option 2: (6, 18, 36)  $(6, 6 \times 3, 6^2)$  follows the logic.

Option 3: (5, 15, 25)  $(5, 5 \times 3, 5^2)$  follows the logic.

Option 4: (8, 24, 64)  $(8, 8 \times 3, 8^2)$  follows the logic.

Therefore, **(9, 27, 72)** will be the correct option.

Hence, the correct answer is **(9, 27, 72)**.

**Question 22 :**

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

\_ c e \_ k b \_ c \_ f k b b \_ e f \_ b b c \_ f k

**Difficulty :** Moderate

**Average Time :** 61 Seconds

**Options :**

1. b, e, b, f, c, k, e
2. b, f, b, e, c, k, e
3. b, f, b, c, e, k, e
4. b, f, b, e, c, e, k

**Solution :**

The correct answer is **option 2** i.e. **b, f, b, e, c, k, e**.



Given: b \_ c e \_ k b \_ c \_ f k b b \_ e f \_ b b c \_ f k

Checking options:

Option 1: b b c e e k b b c f f k b b c e f k b b c e f k

doesn't form a series in sequence.

Option 2: b b c e f k b b c e f k b b c e f k b b c e f k

forms a series in sequence.

Since, we got our answer there is no need to check Option 3 and option 4.

Hence, **b, f, b, e, c, k, e** is correct answer.

**Question 23 :**

When number X multiplied to its next number, the product 1260 is obtained. When Number X is added to Number Y, a total of 106 is obtained. Find the value of Number Y. (Assume numbers to be positive)

Difficulty : Moderate

Average Time : 83 Seconds

Options :

1. 77

2. 71

3. 61

4. 87

**Solution :**

The correct answer is **option 2** i.e. **71**.

Given that:

$$x \times (x + 1) = 1260$$

Solving for x,

$$x^2 + x - 1260 = 0$$

$$x^2 + 36x - 35x - 1260 = 0$$

$$x(x + 36) - 35(x + 36) = 0$$

$$x = 35 \text{ and } x = (-36)$$



(Since numbers are assumed positive,  $x = -36$  will be rejected)

Also given that,

$$x + y = 106$$

Putting value for  $x$ ,

$$y = 106 - 35$$

$$y = 71$$

**Question 24 :**

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

$$36 * 14 * 63 * 9 * 11 * (6 * 3) * 90$$

Difficulty : Moderate

Average Time : 53 Seconds

**Options :**

1. +, -, ÷, ×, =, -, +

2. -, +, ×, ÷, -, +, =

3. -, +, ÷, ×, -, +, =

4. -, +, ÷, ×, =, -, +

**Solution :**

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

$$36 * 14 * 63 * 9 * 11 * (6 * 3) * 90$$

Option 1:  $36 + 14 - 63 \div 9 \times 11 = (6 - 3) + 90$

$-27 = 93$  is not correct.

Option 2:  $36 - 14 + 63 \times 9 \div 11 - (6 + 3) = 90$

$64.55 = 90$  is not correct.

Option 3:  $36 - 14 + 63 \div 9 \times 11 - (6 + 3) = 90$

$90 = 90$  is correct.

Since we got our answer there is no need to check Option 4.

The correct answer is -, +, ÷, ×, -, +, =

**Question 25 :**



A cube is made by folding the given sheet . In the cube so formed , what would be the letter on the face opposite the face showing the letter 'A'?

**Difficulty : Moderate**

**Average Time : 65 Seconds**

**Options :**

1. V
2. I
3. E
4. U

**Solution :**

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



A is opposite to I.

V is opposite to U.

O is opposite to E.

The face opposite the face showing the letter 'A' is showing letter 'I'.

**Question 26 :**

In a certain code language, 'AND' is written as 'C-LP-F' and 'NOR' is coded as 'P-MQ-T'. How will 'BUT' be written in that language?

**Difficulty : Moderate**

**Average Time : 52 Seconds**

**Options :**

1. D-SW-V
2. C-SU-V
3. D-SW-U

**C-TV-W****Solution :**

The correct answer is **option 1** i.e. **D-SW-V**.

Coding for AND:

$$A(1) + 2 = C(3)$$

$$N(14) - 2 = L(12) \text{ and } N(14) + 2 = P(16)$$

$$D(4) + 2 = F(6)$$

C-LP-F

Coding for NOR:

$$N(14) + 2 = P(16)$$

$$O(15) - 2 = M(13) \text{ and } O(15) + 2 = Q(17)$$

$$R(18) + 2 = T(20)$$

P-MQ-T

Similarly, BUT will be coded as:

$$B(2) + 2 = D(4)$$

$$U(21) - 2 = S(19) \text{ and } U(21) + 2 = W(23)$$

$$T(20) + 2 = V(22)$$

D-SW-V which is the correct answer.

**Question 27 :**

In a certain code language, 'SAFETY' is coded as '95' and 'EXPAND' is coded as '87'. How will 'GATHER' be coded in that language?

**Difficulty :** Moderate

**Average Time :** 56 Seconds

**Options :**

1. 90

2. 87

3. 88



84

**Solution :**

The correct answer is **Option 2** i.e. **87**.

Let us arrange all the alphabets in the following manner:

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

Now, for every letter of the word following logic will be followed:

If an alphabet is between N to Z, we will take its value for addition.

If a vowel is between A to M, we will take its value for addition.

If a consonant is between A to M, we will take value of alphabet exactly opposite to it for addition.

Sum of numbers assigned till now is finally added with total number of consonants in the word.

Given that SAFETY is coded as 95 and EXPAND is coded as 87.

SAFETY  $19 + 1 + 21 + 5 + 20 + 25$  (Value of alphabet opposite to F i.e. U (21) is taken, Values of vowels A and E are taken as 1 and 5)

=  $91 + 4$  (As number of consonants in SAFETY is 4)

= 95

EXPAND  $5 + 24 + 16 + 1 + 14 + 23$  (Value of alphabet opposite to D i.e. W(23) is taken, Values of vowels A and E are taken as 1 and 5)

=  $83 + 4$  (As number of consonants in EXPAND is 4)

= 87

Similarly,

GATHER  $20 + 1 + 20 + 19 + 5 + 18$  (Value of alphabet opposite to G and H i.e. T(20) and S(19) is taken, Values of vowels A and E are taken as 1 and 5)

=  $83 + 4$  (As number of consonants in GATHER is 4)

= 87

**Question 28 :**



Select the option that is related to the third number in the same way as the second number is related to the first number. 21 : 445 :: 24 : ?

Difficulty : Moderate

Average Time : 105 Seconds

Options :

1. 505
2. 495
3. 523
4. 580

Solution :

The correct answer is **Option 4** i.e. **580**.

21 : 445 :: 24 : ?

$$\begin{aligned} &(21)^2 + 4 \\ &= 441 + 4 \\ &= 445 \end{aligned}$$

Similarly,

$$\begin{aligned} &(24)^2 + 4 \\ &= 576 + 4 \end{aligned}$$

= 580 will be the answer.

Hence, the correct answer is **580**.

**Question 29 :**

As of 2022, which among the following is a permanent member at United Nations Security Council?

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. Brazil
2. Japan
3. Germany

China

**Solution :**

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

- The Permanent Members of the United Nations Security Council are the five sovereign states granted a permanent seat on the UN Security Council by the UN Charter of 1945.
- These are also known as the Permanent Five, Big Five, or P5.
- The name of these countries are, **China, France, Russia, the United Kingdom, and the United States.**

**Question 30 :**

Article 21A of the Constitution of India provides the Right to \_\_\_\_\_.

**Difficulty : Moderate**

**Average Time : 48 Seconds**

**Options :**

1. Equality
2. Work
3. Education
4. Privacy

**Solution :**

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

- **Part III** of the Indian constitution (**Articles 12 to 35**) enshrines six fundamental rights.
- Fundamental rights extend to all citizens, regardless of race, location of birth, religion, caste, or gender.
- The **Right to Education** is guaranteed by **Article 21A** of the Indian Constitution.
- The RTE Act was passed by the Indian Parliament on August 4, 2009, and went into effect on April 1, 2010.
- **Article 21-A** of the Indian Constitution was inserted in 2002 by the Constitution (86th Amendment) Act, making free and compulsory education for all children aged six to fourteen years a Fundamental Right.

**Question 31 :**

'Jadupatua' is a form of \_\_\_\_\_ popular in the state of Jharkhand.

**Difficulty : Moderate**

**Average Time : 60 Seconds**

**Options :**

1. Painting
2. Music



Sculpture

4. Dance

**Solution :**

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

- 'Jadupatua' is a type of artwork that is prevalent in Jharkhand.
- The Santhal tribes' Jadupatua paintings are vertical scroll paintings that were once done on fabric but are now done on paper.
- Other Jharkhand folk paintings include Patkar paintings, Jadupatua paintings, Sohrai paintings, Kohver paintings, Ganju paintings, Kurmi paintings, Mundas paintings, Turi paintings, and Ghatwal paintings.

**Question 32 :**

As of 26th January 2021, who is the Lok Sabha Speaker?

**Difficulty : Moderate**

**Average Time : 48 Seconds**

**Options :**

1. Nitin Gadkari
2. Rajnath Singh
3. Om Birla
4. JP Nadda

**Solution :**

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

- **Om Birla** has been the Speaker of the Lok Sabha since June 19, 2019 (as of January 26th, 2021).
- The Speaker of the 17th Lok Sabha, OM Birla, was overwhelmingly elected.
- The opposition failed to field a candidate for Speaker, and Prime Minister Modi's motion to appoint Kota-Bundi MP as Speaker was adopted by voice vote.

**Question 33 :**

Deserts, rain forests, coral reefs and mangroves are features of \_\_\_\_\_ diversity.

**Difficulty : Moderate**

**Average Time : 49 Seconds**

**Options :**

1. Genetic



Cultural

3. Species

4. Ecological

### Solution :

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

- Deserts, rainforests, coral reefs and mangroves are features of **ecological** diversity.
- Biodiversity includes ecological diversity.
- Genetic variations within a species are called genetic diversity.
- The variety of species in an area is called species diversity.
- A variety of ecosystems is called ecological diversity.
- Cultural diversity is the quality of diverse or different cultures, as opposed to monoculture, the global monoculture, or a homogenization of cultures, akin to cultural evolution.

### Question 34 :

What is the abbreviated form of the IPL franchise cricket team from Chennai?

Difficulty : Moderate

Average Time : 54 Seconds

### Options :

1. GCW
2. CSK
3. CA
4. CL

### Solution :

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

- **Chennai Super Kings (CSK)** is the name of the team.
- It is a franchise cricket team headquartered in Chennai, Tamil Nadu, that was created in 2008.
- Chennai Super Kings Cricket Ltd owns the team, and India Cements is a key shareholder.

### Question 35 :

Which of the following states topped the second edition of the Indian Innovation Index released by NITI Aayog in January 2021?

Difficulty : Moderate

Average Time : 47 Seconds



### Options :

1. Andhra Pradesh
2. Punjab
3. Tamil Nadu
4. Karnataka

### Solution :

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

- **Karnataka** topped the second edition of the Indian Innovation Index released by NITI Aayog in January 2021.
- Every year, **NITI Aayog** and the **Institute for Competitiveness** release the **India Innovation Index**.
- The index aims to develop a comprehensive framework for assessing the innovation environment in all states and union territories on a continuous basis.

### Question 36 :

In which of the following states was the International Paragliding Festival organised by the Adventure Sports and Sustainable Tourism Academy (ASSTA) in 2020?

Difficulty : Moderate

Average Time : 53 Seconds

### Options :

1. Kerala
2. Tripura
3. Assam
4. Uttarakhand

### Solution :

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

- In **2020**, the Adventure Sports and Sustainable Tourism Academy (ASSTA) was hold the International Paragliding Festival in Vagamom, **Kerala**.
- The festival is put on by Kerala's tourist department in collaboration with ASSTA.
- It is generally held in the months of March and April.

### Question 37 :

Who among the following was one of the leaders who were instrumental in convincing Mahatma Gandhi about the need to start a non-cooperation movement in support of The Khilafat?



Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Mohammad Ali Jinnah
2. Maulana Abul Kalam Azad
3. Abdul Ghaffar Khan
4. Shaukat Ali

Solution :

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

- The movement began as a protest by Indian Muslims over the Ottoman Empire's treatment of them following World War I.
- The Ali brothers, **Maulana Muhammad Ali** and **Maulana Shaukat Ali** led the Khilafat Movement, which began in **1919**.

Question 38 :

Who among the following laid the foundations of the Indian National Movement by founding the Indian Association at Calcutta in 1876?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Womesh Chandra Banerjee
2. Dadabhai Naoroji
3. Surendranath Banerjee
4. Aurobindo Ghose

Solution :

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

- **Surendranath Banerjee** founded the Indian Association in Calcutta in 1876, laying the groundwork for the Indian National Movement.
- Banerjee and Ananda Mohan Bose founded the 'Indian Association' in Kolkata on **July 26, 1876**.
- The goal of this organisation was to bring Indians together under a single political agenda.
- In **1885**, the Association amalgamated with the Indian National Congress.

Question 39 :

Which of the following organs secretes hydrochloric acid that helps our body in killing pathogenic bacteria?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Kidney
2. Heart
3. Stomach
4. Brain

Solution :

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

- The **stomach** secretes **hydrochloric acid**, which aids in the destruction of dangerous germs in our bodies.
- The main component of gastric juice is hydrochloric acid, which is released by the parietal cells of the stomach mucosa in the fundus and corpus.
- It provides the optimal environment for protein-digesting enzymes to function.
- Hydrochloric acid is a powerful bacteria-killing agent that protects your body from dangerous germs that can enter your body through food.

Question 40 :

Which of the following states won the National Award for Best Electoral Practices 2020?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. Mizoram
2. Meghalaya
3. Kerala
4. Karnataka

Solution :

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

- **Meghalaya** won the **National Award for Best Electoral Practices 2020**.
- The Election Commission of India has chosen the Office of the Chief Electoral Officer of Meghalaya for a Special Award for Information Technology Applications in Elections.
- The prize highlighted persistent and consistent IT application efforts in electoral activities over the whole Enrolment





to Elections (E2E) process, as well as the use of technology to serve all types of voters.

**Question 41 :**

Who among the following rulers is called the 'Napoleon of India'?

Difficulty : Moderate

Average Time : 53 Seconds

**Options :**

1. Bindusara
2. Chandragupta I
3. Ashoka
4. Samudragupta

**Solution :**

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

- **Samudragupta** is known as the 'Napoleon of India'.
- Samudragupta, the greatest monarch of the Gupta Dynasty, reigned from roughly 380 AD till his death.
- Because of his tremendous military conquests, western scholars compare him to Napoleon and refer to him as Indian Napoleon.

**Question 42 :**

Which of the following is NOT in Karnataka?

Difficulty : Moderate

Average Time : 45 Seconds

**Options :**

1. Hampi
2. Duduma Waterfall
3. Mysore Palace
4. Bannerghatta National Park

**Solution :**

The correct answer is **option 2** i.e. **Duduma Waterfall**

- The **Duduma Waterfall** is not located in the state of **Karnataka**.
- It is located in the Badigada village in Koraput district, Odisha, and is one of the highest waterfalls in India.
- It falls from a height of more than 550 feet.



The Machkund River is the source of the waterfall.

### Question 43 :

'Swasthya Sathi' scheme is the health insurance scheme that covers the entire population of which of the following states?

Difficulty : Moderate

Average Time : 52 Seconds

### Options :

1. West Bengal
2. Assam
3. Meghalay
4. Bihar

### Solution :

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

- The health insurance scheme known as '**Swasthya Sathi**' covers the whole population of West Bengal.
- The scheme is overseen by a **State Level Implementation Committee (SLIC)** chaired by the Chief Secretary, and the scheme is monitored by a registered organisation called "**Swasthya Sathi Samiti.**"

### Question 44 :

Who among the following won the 'Indian Personality of the Year Award' during the 51st International Film Festival?

Difficulty : Moderate

Average Time : 49 Seconds

### Options :

1. Amitabh Bachchan
2. Shabana Azmi
3. Asha Bhosle
4. Biswajit Chatterjee

### Solution :

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

- **Biswajit Chatterjee** won the 'Indian Personality of the Year Award' during the **51st International Film Festival.**
- He is a veteran Hindi and Bengali actor, producer, director, and singer.
- Kumar Vijay Singh in Bees Saal Baad, Raja Amit Kumar Singh in the musical play Kohra, and other roles are among his most well-known.

**Question 45 :**

What do you call the effect of splitting a spectral line into several components in the presence of a static magnetic field?

Difficulty : Moderate

Average Time : 54 Seconds

**Options :**

1. Askaryan effect
2. Zeeman effect
3. Bezold effect
4. Domino effect

**Solution :**

The correct answer is **option 2** i.e. **Zeeman effect**.

- The **Zeeman Effect** is a physics and astronomy phenomenon that involves the splitting of a spectral line into two or more components with slightly differing frequencies when the light source is put in a magnetic field.
- It is named after **Pieter Zeeman**, a **Dutch physicist**.
- Because of the magnetic field, the electron orbitals are distorted, causing the effect.
- This phenomenon is extremely beneficial for determining an electron's charge/mass ratio and magnetic moment.

**Question 46 :**

Which of the following state governments launched the long-awaited policy of manufactured sand in January 2021?

Difficulty : Moderate

Average Time : 57 Seconds

**Options :**

1. Madhya Pradesh
2. Rajasthan
3. Maharashtra
4. Gujarat

**Solution :**

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

- **Rajasthan's state government** announced the long-awaited policy of manufactured sand in January 2021.
- Rajasthan Chief Minister Shri Ashok Gehlot announced the Rajasthan M Sand Policy 2021 on January 25, 2021.
- The initiative attempts to meet the state's demand for river sand for development projects.
- The M-Sand initiative will reduce reliance on river sand and increase M-Sand use and production in Rajasthan.

**Question 47 :**

Who among the following is an Indian Paralympic swimmer?

Difficulty : Moderate

Average Time : 49 Seconds

**Options :**

1. Sharath M Gayakwad
2. Pramod Bhagat
3. Gaurav Khanna
4. Sukant Kadam

**Solution :**

The correct answer is **option 1** i.e. **Sharath M Gayakwad**.

- **Sharath M Gayakwad** is a paralympic swimmer from India.
- He won six medals at the 2014 Asian Games, breaking PT Usha's record for the most medals won by an Indian in any multi-discipline event.
- He competed in the 2012 Summer Paralympics in London as the first Indian swimmer to qualify for the Games.
- He is now retired and the programme director of Zee Swim Academy, a Bangalore-based swimming club.

**Question 48 :**

When is the statehood day of Tripura observed?

Difficulty : Moderate

Average Time : 53 Seconds

**Options :**

1. 3 October
2. 12 March
3. 21 January
4. 21 February

**Solution :**

The correct answer is **option 3** i.e. **21 January**.

- **Tripura** celebrates its statehood day on **January 21**.
- The present-day state of Tripura was once part of an independent princely state under the British Empire's protectorate.
- The independent Tripuri Kingdom joined the newly independent India in 1949.



The North Eastern Region (Reorganisation) Act of 1971 made the three states of Manipur, Tripura, and Meghalaya full-fledged states on January 21, 1972.

**Question 49 :**

SHG promotes thrift in small proportions with a minimum contribution from each member of the group. What does 'H' stand for in SHG?

**Difficulty : Moderate****Average Time : 52 Seconds****Options :**

1. Habitat
2. Heavy
3. Harvest
4. Help

**Solution :**

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

**SHG - Self Help Group**

- Self Help Groups are groups of ten to twenty persons organised in a community for any social or economic objective.
- Self-help groups are viewed as tools for achieving goals such as empowering women, building leadership skills among the poor and needy, increasing school enrollment, and improving nutrition and birth control use.

**Question 50 :**

Topaz is a \_\_\_\_\_ of fluorine and aluminium.

**Difficulty : Moderate****Average Time : 47 Seconds****Options :**

1. Sulphate
2. Phosphate
3. Carbonate
4. Silicate

**Solution :**

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



**Topaz is a silicate of fluorine and aluminium.**

- In other terms, it's a fluorine-containing aluminium silicate.
- It's the hardest silicate material on the planet.
- It's made up of fluorine-bearing vapours released during the final phases of igneous rock crystallisation.
- It reflects light with a low index of refraction.

**Question 51 :**

In which of the following states is Anchar Lake located?

Difficulty : Moderate

Average Time : 48 Seconds

**Options :**

1. Bihar
2. Meghalaya
3. Assam
4. Jammu and Kashmir

**Solution :**

The correct answer is **option 4** i.e. **Jammu and Kashmir**.

- **Anchar Lake** is located in **Jammu and Kashmir**.
- Pollution, large-scale encroachment, and illegal buildings in the surrounding area have severely harmed this lake.
- The 'Amir Khan Nallah' waterway connects it to the famed Dal Lake.
- It lies in the city of Srinagar, near the Soura neighbourhood.

**Question 52 :**

In the periodic table, the highly electronegative halogens and the highly electropositive alkali metals are separated by:

Difficulty : Moderate

Average Time : 49 Seconds

**Options :**

1. Noble gases
2. Alkaline earth metals
3. Rare earth elements
4. Noble metals

**Solution :**

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



Rare Earth Elements (Metals) are found in the periodic table's d-block and f-block.

- There are 17 Rare Earth Elements in all, 15 of which are Lanthanides and the remaining two from the d-block, Scandium (Sc) and Yttrium (Y).
- To complete their octet, very negative halogens just need one electron.
- Noble gases are those with a complex octet.
- Alkali metals only have one excess electron in their outermost element, which they wish to relinquish in order to achieve a full octet.
- **As a result, noble gases separate halogen and alkali metals.**

**Question 53 :**

In which of the following years did the revolt in the countryside of the Bombay Deccan occur?

Difficulty : Moderate

Average Time : 62 Seconds

**Options :**

1. 1875
2. 1890
3. 1790
4. 1905

**Solution :**

The correct answer is **option 1** i.e. **1875**.

- In **1875**, an uprising broke out in the Bombay Deccan hinterland.
- The British introduced the Ryotwari settlement as a land revenue system in the Bombay Deccan region.
- The land revenue was established on a yearly basis under this system.
- It started in the Supa village in Poona.
- Farmers attacked a place where many moneylenders lived and burnt the account books.

**Question 54 :**

The average height of some students in a group is 156 cm. If 5 students of average height 160 cm join the group, then the average height of all the students in the group increases by 0.8 cm. What is the number of students in the group, initially?

Difficulty : Moderate

Average Time : 57 Seconds

**Options :**

1. 10
2. 15



20

4. 25

**Solution :**

The correct answer is **option 3** i.e. **20**

**Given :**

Average height of some students = 156 cm

Average height of 5 students = 160 cm

**Formula used :**

Average = Sum of observation/number of observations ---- (1)

**Calculations :**

Let the number of students be  $x$

Sum of height of  $x$  students =  $156x$  ---- (1)

Sum of height of 5 students =  $5 \times 160 = 800$  cm ---- (2)

New average =  $156 + 0.8 = 156.8$  cm

Total number of new students =  $x + 5$

Sum of  $(x + 5)$  students =  $(x + 5) \times 156.8$

$156.8x + 784$  ---- (3)

Equating equation (1) + (2) and (3)

$800 + 156x = 156.8x + 784$

$16 = 0.8x$

$x = 20$

**Hence, total number of students = 20**

**Question 55 :**

In  $\triangle ABC$ ,  $DE \parallel AB$ , where  $D$  and  $E$  are the points on sides  $AC$  and  $BC$ , respectively, If  $AD = x - 3$ ,  $AC = 2x$ ,  $BE = x - 2$  and  $BC = 2x + 3$ , then what is the value of  $x$ ?

Difficulty : Moderate

Average Time : 73 Seconds



**Options :**

1. 10
2. 9
3. 12
4. 8

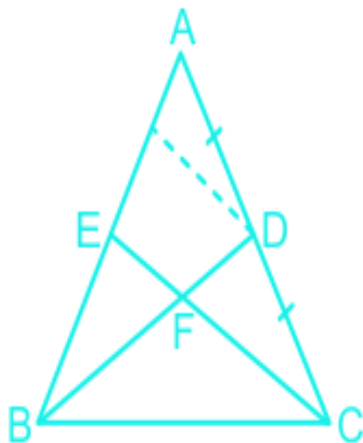
**Solution :**

The correct answer is **option 2** i.e. **9**

**Given :**

$DE \parallel AB$ , where D and E are the points on sides AC and BC

$AD = x - 3$ ,  $AC = 2x$ ,  $BE = x - 2$  and  $BC = 2x + 3$

**Calculations :**

In ABC, we have

$$CD = 2x - x + 3 = x + 3$$

$$EC = 2x + 3 - x + 2 = x + 5$$

$$CD/AC = EC/BC$$

$$(x + 3)/(2x) = (x + 5)/(2x + 3)$$

$$(2x + 3)(x + 3) = (x + 5)2x$$

$$2x^2 + 6x + 3x + 9 = 2x^2 + 10x$$

$$10x - 9x = 9$$

$$x = 9 \text{ cm}$$

**Question 56 :**

The data given in the table shows the number of boys and girls enrolled in three different streams in a school over 5 years.

Years	Arts	Science	Commers	Boys	Girls	Boys	Girls	Boys	Girls
2012	48	36	40	35	35	45	2014	42	43
2016	42	38	30	36	38	2018	39	46	41
2020	23	28	34	2020	36	43	39	30	39
2016	42	32	42	2016	42	32	2016	42	32

By what percent is the total number of Boys in Arts stream more than the total number of boys in Science Stream in the years 2012 to 2020

Difficulty : Moderate

Average Time : 78 Seconds

**Options :**

- 5
- $4 \frac{16}{21}$
- 0
- $2 \frac{18}{41}$

**Solution :**

The correct answer is **option 1** i.e. **5**

**Calculations :**

Total number of boys in arts stream

$$48 + 42 + 45 + 39 + 36$$

$$210$$

Total number of boys in science stream

$$40 + 42 + 38 + 41 + 39$$

$$200$$

$$\text{Required percentage} = \frac{(210 - 200)}{200} \times 100$$

$$10/2$$

$$5\%$$

**Question 57 :**

A certain sum amounts to Rs 291600 in 2 Years and to Rs 314928 in 3 years on compound interest compounded annually. How much will be the simple interest (In Rs) on Rs 40000 at the same rate for 2 years?



Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 6400
2. 8000
3. 7500
4. 9600

Solution :

The correct answer is **option 1** i.e. **6400**.

Given :

Amount in 2 years = Rs 291600

Amount in 3 years = Rs 314928

Formula used :

Compound interest =  $P(1 + R/100)^T - P$

Amount =  $P(1 + R/100)^T$  ---- (1)

P = principal, R = rate, T = time period

Simple interest =  $PRT/100$  ----- (2)

Calculations :

Using equation (1), we get

$$291600 = P(1 + R/100)^2 \text{ ----- (3)}$$

$$314928 = P(1 + R/100)^3 \text{ ----- (4)}$$

Dividing equation (4) by (3)

$$1.08 = (1 + R/100)$$

$$108 = (100 + R)$$

$$R = 8\%$$

Now, using equation (2)

$$\text{Simple interest} = (40000 \times 8 \times 2)/100 = \text{Rs } 6400$$

**Question 58 :**

The following Bar Graph represent the production of Fertilizers by Company A and B (in 10000 tonnes) over the years from 2005 to 2010. The X - axis represent the years , and the Y- axis represent the Production of Fertilizer ( in 10000 tonnes). (Note: The data shown below is only for mathematical exercise . They do not represent the actual figures of the companies) What is the average production (in 10000 tonnes) of Fertilizer in 2008 and 2009 and 2010 of Company A?

**Difficulty : Moderate****Average Time : 85 Seconds****Options :**

1. 600
2. 570
3. 590
4. 620

**Solution :**

The correct answer is **option 2** i.e. **570**

**Calculations :**

Total fertilizers in 2008, 2009 and 2010 of company A

$$460 + 580 + 670$$

$$1710 \text{ (in 10000 tones)}$$

$$\text{Required average} = 1710/3$$

$$570 \text{ (in 10000 tones)}$$

**Question 59 :**

If  $(\sin(\frac{2A+B}{2}) = \cos(\frac{2A-B}{2}) = \frac{\sqrt{3}}{2})$  where  $(0 < \frac{2A+B}{2} < 90)$  and  $(0 < \frac{2A-B}{2} < 90)$  then, find the value of  $\sin(3(A-B))$

**Difficulty : Moderate****Average Time : 43 Seconds****Options :**

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

1

**Solution :**

The correct answer is **option 2** i.e.  $\frac{1}{\sqrt{2}}$ .

Calculations :

$$\sin(2A + B)/2 = \frac{1}{\sqrt{3}}$$

$$(2A + B)/2 = \sin^{-1}\left(\frac{1}{\sqrt{3}}\right)$$

$$(2A + B)/2 = 60^\circ$$

$$(2A + B) = 120^\circ \quad \text{----- (1)}$$

Now,  $\cos(2A - B)/2 = \frac{1}{\sqrt{3}}$

$$(2A - B)/2 = \cos^{-1}\left(\frac{1}{\sqrt{3}}\right)$$

$$(2A - B)/2 = 30^\circ$$

$$(2A - B) = 60^\circ \quad \text{----- (2)}$$

Solving equations (1) and (2), we get

$$A = 45^\circ \text{ and } B = 30^\circ$$

Putting the values of A and B, we get

$$\sin(3(A - B))$$

$$\sin(3(45 - 30))$$

$$\sin(3(15))$$

$$\sin 45^\circ$$

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

**Question 60 :**

The given bar graph shows the imports and exports ( in crores Rs ) of steel for 5 years from 2014 to 2018. What is the ratio of average export to average import over the five years?

Difficulty : Moderate

Average Time : 79 Seconds

**Options :**

1. 247 : 109



247 : 218

3. 109 : 247

4. 218 : 247

**Solution :**

The correct answer is **option 2** i.e. **247 : 218**

**Calculations :**

Total import in five years =  $350 + 380 + 420 + 450 + 580$

Rs 2180 crores

Average import in five years =  $2180/5 = \text{Rs } 436$  crores

Total export in five years =  $400 + 420 + 550 + 480 + 620$

Rs 2470 crores

Average export in five years =  $2470/5 = \text{Rs } 494$  crores

The ratio of average export to average import over the five years

494 : 436

**247 : 218**

**Question 61 :**

In a factory , there are 39 workers who have been categorised into five groups ( A, B, C ,E ) on the basis of the range of their daily wages (in multiples of Rs 100). It is ensured that the daily wage of no worker is an exact multiple of Rs 100 . The distribution is presented through the given histogram. If two Managers are engaged to supervise the workers , with daily wages ranging between Rs 700 and Rs 800 , then what will be the average daily wage (nearest to a Rs ) Of all members of staff of the factory?

**Difficulty : Moderate**

**Average Time : 68 Seconds**

**Options :**

1. Rs 445
2. Rs 400
3. Rs 455
4. Rs 467

**Solution :**

The correct answer is **option 3** i.e. **Rs 455**

**Calculations :**

Total members in the factory = 39 workers + 2 managers

Daily wages of the managers ranges between 700 and 800, mean is 750.

Calculations done on the basis of midpoints.

Total daily wages of all the members of staff of the factory

$$250 \times 5 + 350 \times 9 + 450 \times 12 + 550 \times 11 + 650 \times 2 + 750 \times 2$$

Rs 18650

Total number of workers = 5 + 9 + 12 + 11 + 2 + 2

41

Average daily wage of all members of staff of the factory

18650/41

454.8 = **Rs 455**

**Question 62 :**

A shopkeeper allows 16% discount on every item. Even after giving the discount, he makes a profit of 8%. If he gives 8% discount instead of 16% on an item marked for Rs 1800 , then what will be his profit percent? ( correct to 2 decimal places).

**Difficulty : Moderate**

**Average Time : 64 Seconds**

**Options :**

1. 19
2. 18.31
3. 18
4. 18.29

**Solution :**

The correct answer is **option 4** i.e. **18.29**

**Given :**



Discount % = 16%

Marked price = Rs 1800

**Formula used :**

Selling price = Marked price  $\times$  (100 - Discount%)/100 ----- (1)

Profit percent = (SP - CP)/CP  $\times$  100 ----- (2)

**Calculations :**

Using equation (1), we get

Selling price after 16% discount =  $1800 \times (84/100)$

Rs 1512

Using equation (2)

$8 = (1512 - CP)/CP \times 100$

CP = Rs 1400

Selling price when 8% discount was given =  $1800 \times (92/100)$

Rs 1656

Profit percent =  $(1656 - 1400)/1400 \times 100$

$256/14 = 18.29\%$

**Question 63 :**

If  $x + y = 2$  and  $(\frac{1}{x}) + (\frac{1}{y}) = (\frac{18}{5})$ , then the value of  $(x^3 + y^3)$  is :

**Difficulty : Moderate**

**Average Time : 62 Seconds**

**Options :**

1.  $4 \frac{2}{3}$

2.  $4 \frac{3}{5}$

3.  $3 \frac{1}{5}$

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

**Solution :**

The correct answer is **option 1** i.e.  $4 \frac{2}{3}$





**Given :**

$$x + y = 2 \text{ and } \frac{1}{x} + \frac{1}{y} = \frac{18}{5}$$

**Formula used :**

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

**Calculations :**

$$\frac{1}{x} + \frac{1}{y} = \frac{18}{5}$$

$$(x + y)/xy = 18/5$$

$$xy = 5/9$$

Using equation (1), we get

$$(x + y)^3 = x^3 + y^3 + 3xy(x + y)$$

$$2^3 = x^3 + y^3 + 3(5/9)(2)$$

$$8 = x^3 + y^3 + 10/3$$

$$x^3 + y^3 = 8 - 10/3$$

$$14/3 = \sqrt[4]{\frac{2}{3}}$$

**Question 64 :**

The value of  $25 \div 15$  of  $4 \times [4 \div 5 \times (9 - 7)] - (20 \div 5$  of  $9)$  is :

**Difficulty : Moderate**

**Average Time : 84 Seconds**

**Options :**

1.  $\frac{2}{3}$

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

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

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

**Solution :**

The correct answer is **option 3** i.e.  $\frac{2}{9}$

**Concept used :**

BODMAS rule

**Calculations :**

$$25 \div 15 \text{ of } 4 \times [4 \div 5 \times (9 - 7)] - (20 \div 5 \text{ of } 9)$$

$$25 \div 60 \times [4/5 \times 2] - (20/45)$$

$$(25/60) \times (8/5) - 4/9$$

$$2/3 - 4/9$$

$$(6 - 4)/9$$

$$2/9$$

**Question 65 :**

If  $p - 2q = 3$  and  $pq = 5$ , then what is the value of  $(p^3 - 8q^3)$  ?

**Difficulty : Moderate****Average Time : 52 Seconds****Options :**

1. -63
2. 72
3. 117
4. 27

**Solution :**

The correct answer is **option 3** i.e. **117**

**Given :**

$$p - 2q = 3 \text{ and } pq = 5$$

**Formula used :**

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

**Calculations :**

Using equation (1)

$$(p - 2q)^3 = p^3 - 8q^3 - 3(p)(2q)[p - 2q]$$

$$3^3 = p^3 - 8q^3 - 6pq(3)$$

$$p^3 - 8q^3 = 27 + 90$$



117

**Question 66 :**

A boat goes 27 km upstream and 33 km downstream in 6 hours . In the same time it can go 36 km upstream and 22 km downstream . How much time will it take to go 36 km upstream and 44 km downstream?

**Difficulty : Moderate****Average Time : 65 Seconds****Options :**

1. 8 h 30 m
2. 8 h 10 m
3. 8 h
4. 7 h 50 m

**Solution :**

The correct answer is **option 3** i.e. **8 h**.

**Given :**

27km upstream and 33km downstream = 6 hours

36km upstream and 22km downstream = 6 hours

**Formula used :**

If the speed of boat = x

speed of stream = y

Speed of upstream =  $(x - y)$  km/h ----- (1)

Speed of downstream =  $(x + y)$  km/h ----- (2)

**Calculations :**

Using equation (1) and (2)

$$33/(x + y) + 27/(x - y) = 6 \quad \text{---- (3)}$$

$$22/(x + y) + 36/(x - y) = 6 \quad \text{---- (4)}$$

Equating equations (3) and (4)

$$33/(x + y) + 27/(x - y) = 22/(x + y) + 36/(x - y)$$



$$11/(x + y) = 9/(x - y)$$

$$2x = 20y$$

$$x = 10y$$

Put the value of x in equation (3)

$$3/y + 3/y = 6$$

$$y = 1$$

$$x = 10$$

Speed of downstream =  $x + y = 11$

Speed of upstream =  $x - y = 9$

Time taken to go 36 km upstream and 44 km downstream

$$36/9 + 44/11$$

$$4 + 4 = \mathbf{8 \text{ hours}}$$

**Question 67 :**

The value of  $4(\sin 430^\circ + \cos 430^\circ) - 3(\sin 245^\circ - 2\cos 245^\circ)$  is :

**Difficulty : Moderate**

**Average Time : 87 Seconds**

**Options :**

1. 0

2. 4

3. 2

4. 1

**Solution :**

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

**Concept used :**

Trigonometric ratios

**Calculations :**

$$4[(1/16) + (9/16)] - 3[(1/2) - 1]$$

$$4[(10/16)] - 3(-1/2)$$

$$5/2 + 3/2$$

$$8/2 = 4$$

**Question 68 :**

Samir and Puneet can complete the same work in 10 days and 15 days respectively. The work was assigned for Rs 4500. After working together for 3 days Samir and Puneet involved Ashok. The work was complete in total 5 days . What amount (inRs) was paid to Ashok?

**Difficulty : Moderate****Average Time : 47 Seconds****Options :**

1. 800
2. 1500
3. 750
4. 1071

**Solution :**

The correct answer is **option 3** i.e. **750**.

**Given:**

Samir and Puneet can complete the same work in 10 days and 15 days

Total amount = Rs 4500

Work completed in 5 days

**Calculations :**

Let the total work be LCM (10,15) = 30 units

Samir efficiency =  $30/10 = 3$  units

Puneet efficiency =  $30/15 = 2$  units

Total one-day efficiency of Samir and Puneet = 5 units

Samir and Puneet worked for 5 days = 25 units

Remaining work = 5 units

Ashok worked for 2 days =  $5/2 = 2.5$  units

Amount given for 1 unit of work =  $4500/30 = 150$

Amount given to Ashok =  $150 \times 5 = \text{Rs.750}$

**Question 69 :**

In  $\triangle ABC$  is inscribed in a circle with center O, such that  $\angle ACB = 115^\circ$ . O is joined to A. What is the measures of  $\angle OAB$ ?

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

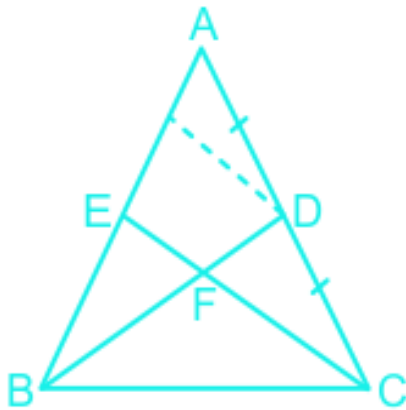
1.  $25^\circ$
2.  $20^\circ$
3.  $35^\circ$
4.  $30^\circ$

**Solution :**

The correct answer is **option 1** i.e.  $25^\circ$

**Given :**

$\angle ACB = 115^\circ$

**Calculations :**

The angle subtended by an arc at the centre is double the angle subtended by the arc at any point on the circle.

$$\angle AOB \text{ (external)} = 2 \angle ACB$$

$$\angle AOB \text{ (external)} = 2(115) = 230$$

$$\angle AOB \text{ (internal)} = 360 - 230 = 130$$



In  $\Delta ABO$ ,  $AO = BO$  (radii)

$$\angle ABO = \angle BAO$$

$$\angle BAO + \angle ABO + \angle AOB = 180$$

$$\angle BAO = \frac{1}{2} \times (180 - 130)$$

$$\frac{50}{2} = 25^\circ$$

Hence, the value of  $\angle OAB = 25^\circ$ .

**Question 70 :**

In  $\Delta ABC$ , D is the mid - point of sides AC and E is a Point on side AB such that EC bisects BD at F. If  $AE = 30$  cm , then the length of EB is :

Difficulty : Moderate

Average Time : 74 Seconds

**Options :**

1. 20 cm
2. 10 cm
3. 18 cm
4. 15 cm

**Solution :**

The correct answer is **option 4** i.e. **15 cm**

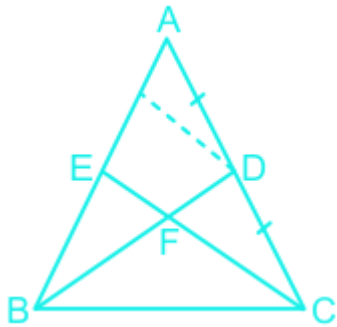
**Given :**

In  $\Delta ABC$ , D is the mid - point on sides AC and E is a Point on side AB

EC bisects BD at F

$$AE = 30 \text{ cm}$$

**Calculations :**



In the figure above a line is drawn parallel to EC from point D on side AC at G.

In  $\triangle AEC$ ,  $DG \parallel EC$

$$\frac{AG}{GE} = \frac{AD}{DC}$$

$$AG = GE \text{ and } AD = DC$$

Similarly in  $\triangle BGD$ ,  $GD \parallel EF$

$$\frac{EB}{EG} = \frac{BF}{FD}$$

$$EB = EG \text{ and } BF = FD$$

$$AE = AG + GE = 30$$

$$AG = GE = 15 \text{ cm}$$

$$GE = EB = 15 \text{ cm}$$

**Hence, The value of EB is 15 cm**

**Question 71 :**

S trader bought two articles for Rs 490. He sold one at a loss of 20 % and the other at a profit of 16% . If the selling price of both articles is same , then the cost price (in Rs) of the articles sold 20% loss is :

**Difficulty : Moderate**

**Average Time : 81 Seconds**

**Options :**

1. 310
2. 300
3. 290
4. 280

**Solution :**





The correct answer is **option 3** i.e. **290**

**Given :**

Cost price of the two articles = Rs 490

Loss percent = 20%

Profit percent = 16%

**Formula used :**

$$\text{Loss \%} = ((\text{CP} - \text{SP})/\text{CP}) \times 100 \quad \text{----- (1)}$$

$$\text{Profit \%} = ((\text{SP} - \text{CP})/\text{CP}) \times 100 \quad \text{----- (2)}$$

**Calculations :**

Let the CP of first article be  $x$

CP of second article be  $(490 - x)$

Selling price of first article =  $x \times (80/100)$

$$\text{Rs } 4x/5 \quad \text{----- (3)}$$

$$\text{Selling price of second article} = (490 - x) \times 116/100 \quad \text{----- (4)}$$

Equating equation (3) and (4) because selling price of both article is equal

$$4x/5 = (490 - x) \times 116/100$$

$$49x/25 = 568.4$$

$$x = 290$$

**Hence, cost price of the article sold at 20% loss is Rs 290**

**Question 72 :**

If the number is first increased by 15% ,then reduced by 15%, it result in 782. If the same number is first reduced is first reduced by 25% then increased by 25% and again reduced by 20% , then what will be the resulting number?

**Difficulty : Moderate**

**Average Time : 79 Seconds**

**Options :**

1. 712

2. 150



750

4. 600

**Solution :**

The correct answer is **option 4** i.e. **600**

**Given :**

A number is first increased by 15% and then decreased by 15%

Number is 782

Now, the same number is first reduced by 25%, then increased by 25% and  
again reduced by 20%

**Calculations :**

Let the number be N

N is increased by 15% =  $(115/100) \times N = 23N/20$

Now, N is decreased by 15% =  $(23N/20) \times (85/100) = 1955N/2000$

$$391N/400 = 782$$

$$N = 800$$

Now, the new number is decreased by 25% =  $(75/100) \times 800$

$$600$$

Now, increased by 25% =  $(125/100) \times 600$

$$750$$

Now, number is reduced by 20% =  $(80/100) \times 750$

$$600$$

**Hence, the new number formed is 600.**

**Question 73 :**

Fourth proportion to 12 , 18, and 6 is same as the third proportion to k and 6 .What is the value of k ?

Difficulty : Moderate

Average Time : 65 Seconds

**Options :**



36

2. 4

3. 13.5

4. 3

**Solution :**

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

**Calculations :**

Let x be the fourth proportion of 12, 18 and 6

$$12/18 = 6/x$$

$$x = 9$$

x = 9 is the third proportion of k and 6, so

$$k/6 = 6/9$$

$$k = 4$$

Hence, the value of k is 4.

**Question 74 :**

Find the difference between square of the greatest value and the smallest value of P if the number 5306P2 is divisible by 3.

Difficulty : Moderate

Average Time : 46 Seconds

**Options :**

1. 6

2. 36

3. 68

4. 60

**Solution :**

The correct answer is **option 4** i.e. 60

**Given :**



5306P2 is divisible by 3

**Concept used :**

Divisibility rule of 3

**Calculations :**

5306P2 is divisible by 3 if sum of the digits of 5206P2 is divisible by 3

$$5 + 3 + 0 + 6 + P + 2$$

$$16 + P$$

So, minimum value of P can be 2 and 8 as 18 and 24 both are divisible by 3

The difference between square of the greatest value and the smallest value of P

$$8^2 - 2^2$$

$$64 - 4$$

$$60$$

**Question 75 :**

The value of  $(\tan^2 30 + \sin^2 90 + \cot^2 60 + \cos^2 45) \sin^2 30$  over  $\sin 60 \cos 30 - \cos 60 \sin 30$  is:

**Difficulty : Moderate**

**Average Time : 58 Seconds**

**Options :**

1.  $\frac{47}{12}$

2.  $\frac{37}{12}$

3.  $\frac{43}{12}$

4.  $\frac{25}{12}$

**Solution :**

The correct answer is **option 3** i.e.  $\frac{43}{12}$

**Concept used :**

Trigonometric ratios

**Calculations :**

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

 $\left(\frac{\frac{43}{24}}{\frac{1}{2}}\right)$ 

43/12

**Question 76 :**

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution required'. I asked Rahul that how far was his office from his home.

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

1. how far his office was
2. No substitution required
3. that how far his office is
4. then how far was his office

**Solution :**

The correct answer is **option 1** i.e. **how far his office was**.

**Explanation:**

- Use of **'that'** is not mandatory in indirect speech unless the sentence is typically complex. Hence, that can be omitted from the above sentence.
- The structure of Indirect Speech changes when converted from Direct Speech and so, **'was'** appears at the last.

Hence, the chosen option is correct.

**Question 77 :**

Select the most appropriate meaning of the given idiom. A storm in a teacup

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

1. Disarranging the cutlery
2. Unnecessary tension
3. Lot of fuss that will soon be forgotten
4. A sudden storm during teatime

**Solution :**



The correct answer is **option 3** i.e. **Lot of fuss that will soon be forgotten.**

- Meaning of the idiom: "A storm in a teacup" is **a situation in which people are very angry or upset about something that is not important.**
- Example Sentence: The Virat-Anderson banter during the test Series turned out to be a storm in a teacup.

Hence, the chosen option is correct.

**Question 78 :**

Select the option that can be used as a one-word substitute for the given group of words. A place in a large institution, for the care of those who are ill.

Difficulty : Moderate

Average Time : 59 Seconds

**Options :**

1. Hostel
2. Infirmary
3. Hangar
4. Dormitory

**Solution :**

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

An infirmary is a place (as in a school or prison) where sick or injured individuals receive care and treatment.

Hence, the chosen option is correct.

**Question 79 :**

Select the option that can be used as a one-word substitute for the given group of words: A group of stars

Difficulty : Moderate

Average Time : 41 Seconds

**Options :**

1. Astronomy
2. Constellation
3. Congregation
4. Planets

**Solution :**



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

- A **constellation** is a group of stars that appears to form a pattern or picture like Orion the Great Hunter, Leo the Lion, or Taurus the Bull.
- Constellations are easily recognizable patterns that help people orient themselves using the night sky. There are 88 “official” constellations.

Hence, the chosen option is correct.

**Question 80 :**

Select the INCORRECTLY spelt word.

Difficulty : Moderate

Average Time : 46 Seconds

**Options :**

1. Professional
2. Electronics
3. Dillemma
4. Perpetuate

**Solution :**

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

The correct spelling of the selected option is 'DILEMMA'. All the other options are correct in terms of their spelling.

Hence, the chosen option is correct.

**Question 81 :**

Select the INCORRECTLY spelt word.

Difficulty : Moderate

Average Time : 38 Seconds

**Options :**

1. Processing
2. Boundary
3. Photgraph
4. Competency

**Solution :**



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

All the words other than 'Photgraph' are mentioned with their correct spellings. Its correct spelling is '**PHOTOGRAPH**'.

Hence, the chosen option is correct.

**Question 82 :**

Select the option that expresses the given sentence in reported speech. "Is the door closed?" Alka asked Tarun.

Difficulty : Moderate

Average Time : 41 Seconds

**Options :**

1. Alka asked Tarun is the door close.
2. Alka asked Tarun whether the door was closed.
3. Alka asked Tarun if the door is closed.
4. Alka asked Tarun whether she closed the door.

**Solution :**

The correct answer is **option 2** i.e. **Alka asked Tarun whether the door was closed.**

**Explanation:**

- If the sentence of Direct speech has a question that can be answered by saying yes or no then it uses "if" or "whether" in its Indirect speech.
- As the sentence has a question associated with it, we need to add 'Whether' in the reported speech.
- 'is' changes to 'was' in a reported speech.

Hence, the chosen option is correct.

**Question 83 :**

Select the most appropriate option to fill in the blank. We \_\_\_\_\_ the marks of the students on different subjects and compared their performance for the year.

Difficulty : Moderate

Average Time : 65 Seconds

**Options :**

1. analysed
2. questioned
3. inspected



probed

**Solution :**

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

The selected option suits best as the correct filler to the blank as the sentence talks about the report of students which needs to be analysed.

**Meaning of all words:**

- analysed: examine (something) methodically and in detail, typically in order to explain and interpret it.
- questioned: to question
- inspected: look at (someone or something) closely, typically to assess their condition or to discover any shortcomings.
- probed: a blunt-ended surgical instrument used for exploring a wound or part of the body.

Hence, the chosen option is correct.

**Question 84 :**

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. Raman putted the vegetables / in the frying pan / and after adding some water, / closed the lid.

**Difficulty : Moderate**

**Average Time : 67 Seconds**

**Options :**

1. in the frying pan
2. closed the lid
3. and after adding some water
4. Raman putted the vegetables

**Solution :**

The correct answer is **option 4** i.e. **Raman putted the vegetables**.

The word '**put**' is a verb. Let us look at its different forms:

V1	V2	V3	V4	V5
Put	Put	Put	Puts	Putting

As we can see, there is no verb form of '**put**' as '**Putted**'. So, the error lies in that part of the sentence.



Hence, the chosen option is correct.

**Question 85 :**

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. Whichever soonest made a traveller take off his cloak should be accounted the more powerful. B. They agreed to put the point to test. C. A dispute once arose between the wind and the sun to decide which was the stronger of the two. D. The wind began, and blew with all his might and sent a blast, cold and fierce as a storm.

Difficulty : Moderate

Average Time : 92 Seconds

**Options :**

1. CDBA
2. ACDB
3. CBAD
4. BCDA

**Solution :**

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

**Explanation:**

- The first sentence will always be the one that initiates a topic. So, the sentence that looks to be a topic initiator is 'C' i.e. A dispute once arose between the wind and the sun to decide which was the stronger of the two.
- The second sentence that seems to be a continuation of the previous one is 'B'.
- The next sentence is 'A' as it explains the test that was mentioned in the previous sentence.
- The last sentence is 'D' as it concludes the sentence with the result.

Hence, the chosen option is correct.

**Question 86 :**

Select the most appropriate synonym of the given word. Adjust

Difficulty : Moderate

Average Time : 61 Seconds

**Options :**

1. Adapt
2. Change
3. Move



Shift

**Solution :**

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

**Meaning of all Words:**

- **Adapt: become adjusted to new conditions.**
- Change: make (someone or something) different; alter or modify.
- Move: go in a specified direction or manner; change position.
- Shift: move or cause to move from one place to another, especially over a small distance.

Hence, the chosen option is correct.

**Question 87 :**

Select the option that will substitute the underlined part of the given sentence. In case no substitution is needed, select 'No substitution required'. Among applied sciences, medicine is one which have given man some power over death.

**Difficulty : Moderate**

**Average Time : 58 Seconds**

**Options :**

1. is one which has given
2. No substitution required
3. are one which given
4. is the one which gave

**Solution :**

The correct answer is **option 1** i.e. **is one which has given**.

- **Have** is used with some pronouns and plural nouns.
- **Has** is used with the singular nouns.

In this sentence, 'medicine' has been used as a '**singular Noun**'.

Hence, the chosen option is correct.

**Question 88 :**

Select the option that expresses the given sentence in passive voice. Help the needy people.

**Difficulty : Moderate**

**Average Time : 50 Seconds**



### Options :

1. Let the needy people being helped.
2. The needy people are been helped.
3. The needy people are helping.
4. Let the needy people be helped.

### Solution :

The correct answer is **option 4** i.e. **Let the needy people be helped.**

### Explanation:

- The above sentence is called as an 'Imperative Sentence' as it signifies advice/suggestion.
- As per the rule of voice, the imperative sentences always start with 'Let'.
- The verb here is '**help**' and the object is '**Needy**'. So, help changes to 'be Helped' and object comes at the beginning.

Hence, the chosen option is correct.

### Question 89 :

Select the most appropriate meaning of the given idiom. At the eleventh hour

Difficulty : Moderate

Average Time : 58 Seconds

### Options :

1. One hour before midnight
2. At 11:00 p.m.
3. At the very last minute
4. At 11:00 a.m.

### Solution :

The correct answer is **option 3** i.e. **At the very last minute.**

- Meaning of the given Idiom: 'At the eleventh hour' is **the latest possible time before it is too late.**
- **Sentence:** He always procrastinates his work till the eleventh hour.

Hence, the chosen option is correct.

### Question 90 :

Select the most appropriate option to fill in the blank. My New Year's \_\_\_\_\_ is to think positive always.

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. repetition
2. resolution
3. confession
4. celebration

Solution :

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

Out of all the words mentioned in the options, the best suitable one is 'resolution' and the reason lies with the meaning of the words:

- repetition: the action of repeating something that has already been said or written.
- **resolution: a firm decision to do or not to do something.**
- confession: a formal statement admitting that one is guilty of a crime.
- celebration: the action of celebrating an important day or event.

Hence, the chosen option is correct.

**Question 91 :**

Select the most appropriate ANTONYM of the given word. Magnificent

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Mighty
2. Modest
3. Grandiose
4. Opulent

Solution :

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

Meaning of the given words:

Magnificent: extremely beautiful, elaborate, or impressive.

- Modest: unassuming in the estimation of one's abilities or achievements.
- Grandiose: impressive and imposing in appearance or style, especially pretentiously so.
- Opulent: ostentatiously costly and luxurious.

The best suitable antonym for the given word is '**Modest**'. Hence., the chosen option is correct.

### Question 92 :

Select the most appropriate ANTONYM of the given word. Hazard

Difficulty : Moderate

Average Time : 51 Seconds

### Options :

1. Gamble
2. Risk
3. Safety
4. Peril

### Solution :

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

### Meaning of the given words:

- Gamble: take risky action in the hope of a desired result.
- Risk: a situation involving exposure to danger.
- Safety: The condition of being protected from or unlikely to cause danger, risk, or injury.
- Peril: serious and immediate danger.

We can infer from the meanings that '**Safety**' suits best as the antonym. Hence, the chosen option is correct.

### Question 93 :

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 recruiters / were pleased / to John's / domain knowledge and personality.

Difficulty : Moderate

Average Time : 60 Seconds

### Options :

1. to John's
2. were pleased



domain knowledge and personality

#### 4. The recruiters

#### Solution :

The correct answer is **option 1** i.e. **to John's**.

The error in the selected option is with the use of prepositions.

- Usage of to: 'To' is one of the most common prepositions in English. The preposition 'to' is also a part of the infinitive form of the verb. The preposition 'to' is also used as a preposition of movement or direction.
- The best suitable preposition in this sentence is '**with**' as we use with to refer to what we use to do something.

Hence, the chosen option is correct.

#### Question 94 :

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. I was shocked to find my house unlocked. B. To my astonishment, I found that my son, who had a spare key, had come in my absence. C. Last Sunday I returned home late at night. D. I ran inside in fear that my house has been robbed.

Difficulty : Moderate

Average Time : 76 Seconds

#### Options :

1. BCDA
2. ABCD
3. CDAB
4. CADB

#### Solution :

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

- The first sentence of the para seems to be 'C' because it initiates the sentence about returning to his home.
- The second sentence is 'A' as the moment he returns to his house, he finds the house to be unlocked.
- The third sentence is D as it continues with the flow i.e. he enters his house with fear.
- The sentence that concludes the paragraph is B which tells the actual thing that happened.

Hence, the chosen option is correct.

#### Question 95 :



Select the most appropriate synonym of the given word. Slack

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Lively
2. Careless
3. Keen
4. Active

Solution :

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

Meaning of the words:

- Lively: full of life and energy; active and outgoing.
- **Careless: not giving sufficient attention or thought to avoid harm or errors.**
- Keen: having or showing eagerness or enthusiasm.
- Active: engaging or ready to engage in physically energetic pursuits.

Hence, the chosen option is correct as it suits best as a synonym to the given word.

**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. "Everything in Bhutan is chemical-free, all fruits and vegetables are (1)\_\_\_\_\_ organically, so whatever you buy is (2)\_\_\_\_\_ farm produced as the (3)\_\_\_\_\_ of the population indulge in farming for (4)\_\_\_\_\_,," says my taxi driver Karma Chime. "We use turmeric on wounds, also to dye (5)\_\_\_\_\_ and it is added extensively in our cooking. Also, many believe it is anti-cancer and can treat tumours.

**Question 96 :**

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

Difficulty : Moderate

Average Time : 77 Seconds

Options :

1. grows
2. grow





grew

4. grown

**Solution :**

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

The given passage talks about Bhutan and the habits of people who usually prefer organic foods. The word that suits best in the blank number 1 is '**grown**' as the sentence talks about producing of vegetables and fruits by the local people of bhutan.

Hence, the chosen option is correct.

**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. "Everything in Bhutan is chemical-free, all fruits and vegetables are (1)\_\_\_\_\_ organically, so whatever you buy is (2)\_\_\_\_\_ farm produced as the (3)\_\_\_\_\_ of the population indulge in farming for (4)\_\_\_\_\_,” says my taxi driver Karma Chime. “We use turmeric on wounds, also to dye (5)\_\_\_\_\_ and it is added extensively in our cooking. Also, many believe it is anti-cancer and can treat tumours.

**Question 97 :**

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

**Difficulty : Moderate**

**Average Time : 70 Seconds**

**Options :**

1. locally
2. neraly
3. nearby
4. closely

**Solution :**

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

The given passage talks about Bhutan and the habits of people who usually prefer organic foods. The word that suits best at the blank number 2 is 'locally' as most of the vegetables are locally produced on farms.

Hence, the chosen option is correct.

**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. "Everything in Bhutan is chemical-free, all fruits and vegetables are (1)\_\_\_\_\_ organically, so whatever you buy is (2)\_\_\_\_\_ farm produced as the (3)\_\_\_\_\_ of the population indulge in farming for (4)\_\_\_\_\_,” says my taxi driver Karma Chime. “We use turmeric on wounds, also to dye (5)\_\_\_\_\_ and it is added extensively in our cooking. Also, many believe it is anti-cancer and can treat tumours.

**Question 98 :**

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

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

1. mass
2. majority
3. community
4. common

**Solution :**

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

The given passage talks about Bhutan and the habits of people who usually prefer organic foods. The word that suits best in the blank number 3 is 'majority' as it mentions about a large number of people are indulged in farming.

Hence, the chosen option is correct.

**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. "Everything in Bhutan is chemical-free, all fruits and vegetables are (1)\_\_\_\_\_ organically, so whatever you buy is (2)\_\_\_\_\_ farm produced as the (3)\_\_\_\_\_ of the population indulge in farming for (4)\_\_\_\_\_,” says my taxi driver Karma Chime. “We use turmeric on wounds, also to dye (5)\_\_\_\_\_ and it is added extensively in our cooking. Also, many believe it is anti-cancer and can treat tumours.

**Question 99 :**

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

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

1. provision
2. conservation



nutrition

4. sustenance

**Solution :**

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

The given passage talks about Bhutan and the habits of people who usually prefer organic foods. The word that suits best in the blank number 4 is '**sustenance**' meaning food and drink regarded as a source of strength; nourishment.

As the meaning of the word suits the context of the sentence. Hence, the chosen option is correct.

**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. "Everything in Bhutan is chemical-free, all fruits and vegetables are (1)\_\_\_\_\_ organically, so whatever you buy is (2)\_\_\_\_\_ farm produced as the (3)\_\_\_\_\_ of the population indulge in farming for (4)\_\_\_\_\_,," says my taxi driver Karma Chime. "We use turmeric on wounds, also to dye (5)\_\_\_\_\_ and it is added extensively in our cooking. Also, many believe it is anti-cancer and can treat tumours.

**Question 100 :**

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

**Difficulty : Moderate**

**Average Time : 71 Seconds**

**Options :**

1. attires
2. covering
3. garments
4. fashions

**Solution :**

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

- The given passage talks about Bhutan and the habits of people who usually prefer organic foods. The word that suits best in blank number 5 is '**garments**' as none of the other options suits the context of the sentence. Moreover, turmeric is used for dyeing garments on a large scale also.

Hence, the chosen option is correct.

# Ssc Cgl Tier I Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2021-08-16 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 Quantitative Aptitude, 25 questions were asked from Logical Reasoning, 25 questions were asked from General Awareness and 25 questions were asked from English Language
4. 21 questions should have been skipped if you were short of time.

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

## Quantitative Aptitude

1. Interest - 1
2. Mensuration - 1
3. Quadratic Equation - 23

## Logical Reasoning

1. Coding Decoding - 2
2. Analogy - 4
3. Classification - 3
4. Symbols Coding - 1
5. Blood Relations - 1
6. Syllogism - 1
7. Venn Diagrams - 1
8. Analytical Reasoning - 1
9. Dictionary Based - 1
10. Figure Based - 4
11. Series - 4
12. Mathematical Reasoning - 1
13. Cubes And Dice - 1

## General Awareness

1. History - 4

- Polity - 2
- 3. Science - 5
- 4. Environment - 1
- 5. GK Misc - 13

## English Language

- 1. Reading Comprehension - 7
- 2. Vocab - 1
- 3. Spotting Error - 1
- 4. Parajumbles - 2
- 5. Idioms - 2
- 6. One Word Substitution - 2
- 7. Spellings - 2
- 8. Narration - 1
- 9. Transformation Of Sentence - 1
- 10. Synonym - 2
- 11. Antonym - 2

## 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.

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

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