



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 2021-08-17 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 :

In a triangle ABC, a point D lies on AB and points E and F lie on BC such that DF is parallel to AC and DE is parallel to AF. If $BE = 4$ cm. $EF = 6$ cm, then find the length (in cm) of BC.

Difficulty : Moderate

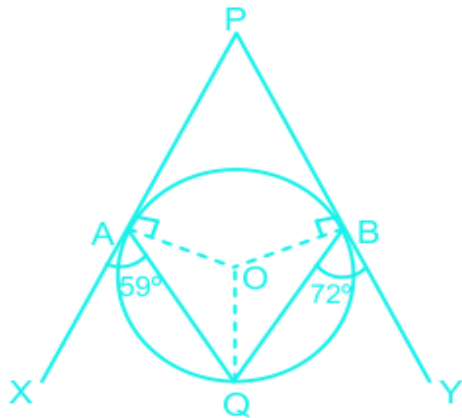
Average Time : 50 Seconds

Options :

1. 30
2. 20
3. 25
4. 15

Solution :

The correct answer is **Option 3** i.e **25**.



Here DE is parallel to AB so one can say that,

$\triangle BDE$ and $\triangle ABF$ are similar by AA similarity.

$$BE/BF = BD/AB = 4/10 = 2/5 \dots\dots\dots(1)$$

Here DF is parallel to AC so one can say that,

$\triangle BDF$ is similar to $\triangle ABC$ by AA similarity.

$$BF/BC = BD/BA = 10/x \dots\dots\dots(2)$$

From eq 1 and 2 we get,

$$2/5 = 10/x$$

$$x = 50/2 = 25 \text{ cm.}$$

Question 2 :

If the seven-digit number $94x29y6$ is divisible by 72, then what is the value of $(2x + 3y)$ for x, y ?

Difficulty : Moderate

Average Time : 63 Seconds

Options :

- 1. 35
- 2. 37
- 3. 23
- 4. 21

Solution :

The correct answer is **Option 2** i.e 37.



Here it is given that $94x29y6$ is divisible by 72.

Co - prime factors of 72 = 9 and 8.

It means that $94x29y6$ must be divisible by 9 and 8.

If $94x29y6$ is divisible by 8 then the last three digits of the number must be divisible by 8 which implies that $9y6$ must be divisible by 8.

The possible values of 'y' at which $9y6$ becomes divisible by 8 are 3 and 7 (936 and 976).

If $94x29y6$ is divisible by 9 then the sum of the digits must be divisible by 9.

Sum of digits of $94x29y6 = (30 + x + y)$

At $y = 3$ possible value of x by which $30 + x + y$ become divisible by 9 is 3.

It is given that $x = y$. So $x = 3$ and $y = 3$ is not possible.

At $y = 7$ possible value of x by which $30 + x + y$ become divisible by 9 is 8.

Required value of $2x + 3y = 2 \times 8 + 3 \times 7 = 37$.

Question 3 :

If $a^2 + c^2 + 17 = 2(a - 8b - 2b^2)$, then what is the value of $(a^3 + b^3 + c^3)$?

Difficulty : Moderate

Average Time : 79 Seconds

Options :

1. -7
2. 9
3. 10
4. -4

Solution :

The correct answer is **Option 1** i.e -7.

Here it is given that $a^2 + c^2 + 17 = 2(a - 8b - 2b^2)$

On simplifying further one gets,

$$a^2 + c^2 + 17 = 2a - 16b - 4b^2$$

$$(a^2 - 2a) + (4b^2 + 16b) + c^2 + 17 = 0$$

Now, to simply further one should breakdown 17.

$$(a^2 - 2a + 1) + (4b^2 + 16b + 16) + c^2 = 0$$

$$(a - 1)^2 + (2b + 4)^2 + c^2 = 0$$

At $a = 1$, $b = -2$ and $c = 0$, L.H.S = R.H.S

Required value of $(a^3 + b^3 + c^3) = 1 - 8 + 0 = -7$.

Question 4 :

Study the following table and answer the question: Number of students enrolled for Vocational Course (VC) in institutes A, B, C, D, E & F. Institutes Years 2014 2015 2016 2017 2018 A 110 150 165 180 205 B 120 180 176 200 220 C 140 220 180 175 225 D 125 210 175 180 230 E 150 200 160 200 240 F 165 230 200 220 210 The total number of students enrolled for VC in institutes B, C and E in 2015 is x% more than the total number of students enrolled in institutes A, D and F in 2016. the value of x is closest to:

Difficulty : Moderate

Average Time : 82 Seconds

Options :

1. 10.3
2. 11.8
3. 10.8
4. 11.1

Solution :

The correct answer is **Option 4** i.e **11.1**.

Number of students enrolled for VC in Institutes B, C and E in 2015 = $180 + 220 + 200 = 600$

Number of students enrolled for VC in Institutes A, D and F in 2016 = $165 + 175 + 200 = 540$.

Required percentage = $\frac{600}{540} \times 100 = 11.11 \%$

Question 5 :

The average of 8 consecutive even numbers written in ascending order is 17. What is the average of the last three numbers, 36 and 53?

Difficulty : Moderate

Average Time : 44 Seconds

**Options :**

1. 31
2. 32.2
3. 31.6
4. 29.8

Solution :

The correct answer is **Option 1** i.e **31**.

Let the 8 consecutive even numbers = $(2a), (2a + 2), (2a + 4), (2a + 6), (2a + 8), (2a + 10), (2a + 12), (2a + 14)$.

Average = Sum of observations/ number of observations

Sum of all 8 consecutive even numbers = Average \times Number of observations.

$$16a + 56 = 17 \times 8$$

$$16a = 136 - 56$$

$$a = 5$$

Now the last three numbers = 20 , 22 , 24

$$\text{Average of last three numbers, 36 and 53} = \left(\frac{20 + 22 + 24 + 36 + 53}{5}\right) = \frac{155}{5}$$

31.

Question 6 :

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 : 56 Seconds

Options :

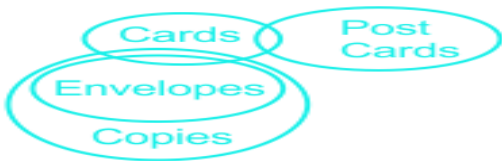
- 1.

2.

- 3.
- 4.

Solution :

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



Question 7 :

In a certain code language, 'REASON' is coded as '5410129', and 'HEALTHY' is coded as '716231216'. How will 'DIVULGE' be coded in that language?

Difficulty : Moderate

Average Time : 63 Seconds

Options :

- 1. 24134383
- 2. 21433438
- 3. 10733494
- 4. 13704349

Solution :



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The correct answer is **Option 2** i.e **21433438**.

Understanding



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The logic used here is:

1. First the vowels are coded as follows:

A = 1; E = 2; I = 3; O = 4; U = 5

2. Consonants with single-digit position value
are multiplied by 2 to get the code.

3. Consonants with double-digit positional
values are added, which is the number code.

4. After that reverse the numbers obtained.

'REASON' is coded as '5410129'

R = 18 = 1 + 8 = 9

E = 2

A = 1

S = 19 = 1 + 9 = 10

O = 4

N = 14 = 1 + 4 = 5

Code for REASON = 5410129

'HEALTHY' is coded as '716231216'

H = 8 × 2 = 16

E = 2

A = 1

L = 12 = 1 + 2 = 3

T = 20 = 2 + 0 = 2

H = 8 × 2 = 16

Y = 25 = 2 + 5 = 7

HEALTHY = 716231216

Similarly,

Code for the word DIVULGE:

D = 4 × 2 = 8

I = 3

Question 8 :

P is the brother of Q. S is the father of P. R is the brother of S. If T is the mother of R, then how is P related to T?

Difficulty : Moderate**Average Time : 87 Seconds****Options :**

1. Uncle
2. Father
3. Brother
4. Grandson

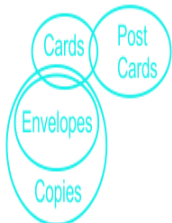
Solution :

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

Understanding

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, P is the grandson of T.

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

Question 9 :

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 : 62 Seconds****Options :**



Agitation

2. Contention

3. Turmoil

4. Tranquillity

Solution :

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

Understanding

The logic used here is:

Agitation means a state of anxiety or nervous excitement.

Contention means heated disagreement.

Turmoil means a state of great disturbance, confusion, or uncertainty.

Tranquillity means a peaceful, calm state.

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

Question 10 :

Select the options in which the numbers are related in the same way as the numbers of the following set. (541, 14, 737)

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. (697, 13, 866)

2. (635, 18, 924)

3. (432, 25, 1108)

4. (832, 8, 895)

Solution :

The correct answer is **Option 1** i.e. **(697, 13, 866)**.

Understanding



The logic used here is:

(541, 14, 737)

$$737 - 541 = 196 = 196 = 14$$

Similarly,

(697, 13, 866)

$$866 - 697 = 169 = 169 = 13$$

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

Question 11 :

Select the number from among the given options that can replace the question mark (?) in the following series. 24, 48, 51, 204, 209, ?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 1047
2. 215
3. 1254
4. 416

Solution :

The correct answer is **Option 3** i.e **1254**

Given series: 24, 48, 51, 204, 209, ?

The series follows this pattern:

$$24 \times 2 = 48$$

$$48 + 3 = 51$$

$$51 \times 4 = 204$$

$$204 + 5 = 209$$

$$209 \times 6 = 1254$$

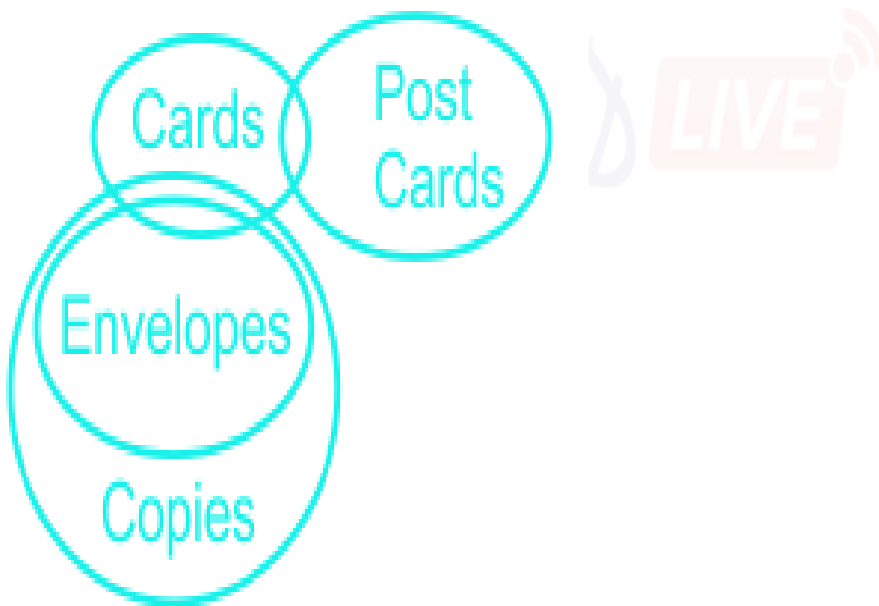
So, the next term in the series is **1254**.

Question 12 :

Find the number of triangles in the given figure.

Difficulty : Moderate**Average Time : 40 Seconds****Options :**

1. 22
2. 23
3. 24
4. 20

Solution :The correct answer is **Option 3** i.e **24**.

24 triangles: ABC, ACD, ABD, EGQ, FGL, AEG, AFG, AGQ, AGL, SRQ, KRL, GHI, GIJ, GHJ, GSQ, GSL, GQL, AQL, ASQ, ASL, QEL, QFL, AFQ, AEL.

Question 13 :

In a certain code language, 'MARGIN' is written as 'SBNOJH'. How will 'PRAYER' be written in that language?

Difficulty : Moderate**Average Time : 44 Seconds****Options :**

1. BSQQFZ

2. BSQSFZ

3. QSBSFZ

4. BSQZFS

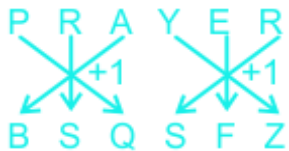
Solution :

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

Understanding

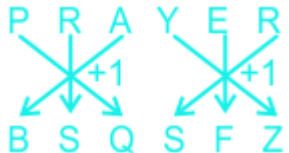
The logic used here is:

'MARGIN' is written as 'SBNOJH'



Similarly,

Code for the word PRAYER:



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

Question 14 :

Select the option in which the numbers are related in the same way as the numbers of the following set. (15, 315, 7)

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. (11, 188, 6)
2. (17, 401, 12)
3. (18, 486, 9)
4. (14, 197, 4)

Solution :

The correct answer is **Option 3** i.e. **(18, 486, 9)**.

Understanding

The logic used here is:

(15, 315, 7)

$$15 \times 7 \times 3 = 315$$

Similarly,

(18, 486, 9)

$$18 \times 9 \times 3 = 486$$

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

Question 15 :

Select the option that is related to the third word in the same way as the second word is related to the first word. Cartridge: Printer:: Motherboard:?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Monitor
2. Machine
3. Keyboard
4. Central Processing Unit

Solution :

The correct answer is **Option 4** i.e. **Central Processing Unit**.

Understanding



The logic used here is:

Cartridge: Printer

The cartridge is the main component of the printer.

Similarly,

Motherboard:?

The motherboard is the main component of the Central Processing Unit.

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

Question 16 :

Select the letter-cluster from among the given options that can replace the question mark (?) in the following series. WUW, TSV, QQU, NOT, ?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. KMS
2. LNT
3. MNS
4. JNT

Solution :

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

Given series: WUW, TSV, QQU, NOT, ?

The series follows this pattern:

$W - 3 = T$; $T - 3 = Q$; $Q - 3 = N$; $N - 3 = K$

$U - 2 = S$; $S - 2 = Q$; $Q - 2 = O$; $O - 2 = M$

$W - 1 = V$; $V - 1 = U$; $U - 1 = T$; $T - 1 = S$

So, the next term in the series is **KMS**

Question 17 :

Select the letter from among the given options that can replace the question mark (?) in the following series. P, N, J, H,?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. D
2. B
3. E
4. C

Solution :

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

Given series: P, N, J, H,?

The series follows this pattern:

$$P - 2 = N$$

$$N - 4 = J$$

$$J - 2 = H$$

$$H - 4 = D$$

So, the next term in the series is **D**

Question 18 :

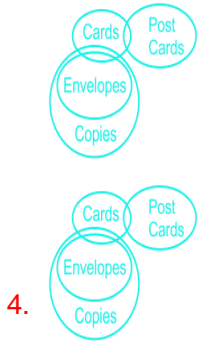
Select the figure from among the given options that can replace the question mark (?) in the following series.

Difficulty : Moderate

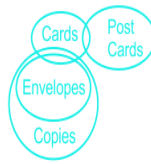
Average Time : 45 Seconds

Options :

- 1.
- 2.



Solution :



The correct answer is **Option 2**

Understanding

The logic used here is:

1. The top left corner symbol comes to the center.
2. The symbol in the center of the figure comes to the bottom left corner in each step.
3. The symbol; in the center of the top line moves to the left corner of the figure in each step.

The series of figures:



Question 19 :

Two different positions of the same dice are shown, the six faces of which are marked from A to F. Select the letter that will be on the face opposite to the face showing the letter 'C'.

Difficulty : Moderate

Average Time : 89 Seconds

Options :

1. F
2. B
3. A
4. D

Solution :

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

Understanding

Given:

In both dice, F is common. So, start rotating either in the clockwise or anticlockwise direction.

Clockwise direction:

Dice 1: F C E

Dice 2: F B D

So, C is opposite to B.

Anticlockwise direction:

Dice 1: F E C

Dice 2: F D B

So, C is opposite to B.

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

Question 20 :

Select the correct mirror image of the given figure when the mirror is placed at 'AB' as shown.

Difficulty : Moderate

Average Time : 61 Seconds

Options :

- 1.

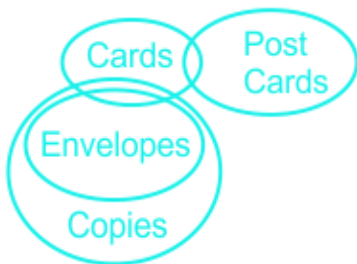


Solution :

The correct answer is **Option 3**.

Understanding

The mirror image of the question figure is shown below:



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

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



**Question 21 :**

Select the option in which the words share the same relationship as that shared by the given pair of words. Cricket: Shikhar Dhawan

Difficulty : Moderate**Average Time : 77 Seconds****Options :**

1. **Boxing: Mary Kom**
2. Kabaddi: Rani Rampal
3. Wrestling: Dipa Karmakar
4. Chess : Saina Nehwal

Solution :

The correct answer is **Option 1** i.e **Boxing: Mary Kom**.

Understanding

The logic used here is:

Cricket: Shikhar Dhawan

Shikhar Dhawan is a cricketer.

Similarly,

Boxing: Mary Kom

Mary Kom is a boxer.

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

Question 22 :

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 : 56 Seconds****Options :**

1. **182 : 12**
2. 461 : 20



239 : 14

4. 305 : 16

Solution :

The correct answer is **Option 1** i.e. **182 : 12**.

Understanding

The logic used here is:

$(2\text{nd number})^2 + 3 \times 2\text{nd number} + 1 = 1\text{st number}$

Option 1: 182 : 12

$$12^2 + 3 \times 12 + 1 = 144 + 36 + 1 = 181$$

Option 2: 461 : 20

$$20^2 + 3 \times 20 + 1 = 400 + 60 + 1 = 461$$

Option 3: 239 : 14

$$14^2 + 3 \times 14 + 1 = 196 + 42 + 1 = 239$$

Option 4: 305 : 16

$$16^2 + 3 \times 16 + 1 = 256 + 48 + 1 = 305$$

Hence, **182 : 12** is the correct answer.

Question 23 :

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

$$1496 * 8 * 13 * 40 * 5 * 0$$

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. $\div, \times, =, +,$

2. $\div, +, =, , \times$

3. $\div, +, , \times, =$

4. $\div, , +, \times, =$

Solution :

The correct answer is **Option 3** i.e $\div, +, \times, =$.

Understanding

Given equation: $1496 * 8 * 13 * 40 * 5 * 0$

Let us check all the options:

Option 1: $\div, \times, =, +$,

The expression becomes:

$$= 1496 \div 8 \times 13 = 40 + 5 - 0$$

$$= 2431 \text{ is not equal to } 45.$$

Option 2: $\div, +, =, , \times$

$$= 1496 \div 8 + 13 = 40 - 5 \times 0$$

$$= 200 \text{ is not equal to } 40.$$

Option 3: $\div, +, , \times, =$

$$= 1496 \div 8 + 13 - 40 \times 5 = 0$$

$$= 0 \text{ is equal to } 0.$$

As we have found our answer, we need not check the other options.

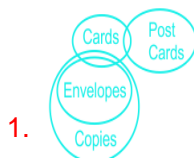
Hence, **option 3** is the correct answer.

Question 24 :

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

Difficulty : Moderate

Average Time : 69 Seconds

Options :

2.

- 3.
- 4.

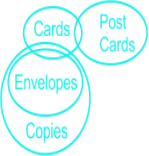
Solution :



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

Understanding

The given figure is embedded in option 4, as shown below:



Question 25 :

Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary. 1. Introduce 2. Internship 3. Interaction 4. Interjection 5. Intervene 6. Interruption

Difficulty : Moderate

Average Time : 73 Seconds

Options :

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

3, 4, 2, 6, 1, 5

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

Solution :

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

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

So the arrangement is;

3. **Interaction**

4. **Interjection**

2. **Internship**

6. **Interruption**

5. **Intervene**

1. **Introduce**

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

Question 26 :

Select the option that is related to the fourth number in the same way as the first number is related to the second number and the fifth number is related to the sixth number. 1008: 8:: ?: 6:: 220: 4

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 524

2. 443

3. 518

4. 350

Solution :

The correct answer is **Option 3** i.e **518**

Understanding

The logic used here is:

1008: 8

$$(8 + 2)^3 + 8 = 10^3 + 8 = 1000 + 8 = 1008$$

220: 4

$$(4 + 2)^3 + 4 = 6^3 + 4 = 216 + 4 = 220$$

Similarly,

?: 6

$$(6 + 2)^3 + 6 = 8^3 + 6 = 512 + 6 = 518$$

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

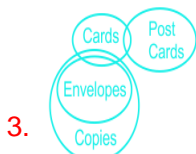
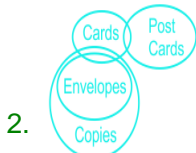
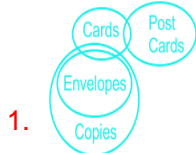
Question 27 :

Select the Venn diagram that best illustrates the relationship between the following classes. Brothers, fathers, Tax-payers

Difficulty : Moderate

Average Time : 53 Seconds

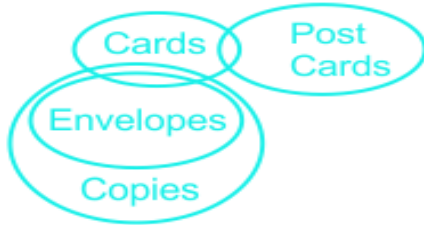
Options :



Solution :

The correct answer is **Option 2**.

The possible Venn diagram is:



Some fathers are brothers, some brothers are tax-payers, and some tax-payers are fathers.

Hence, the diagram given above shows the best relationship between them.

Question 28 :

Rajesh purchased 6 mangoes, 3 bananas, and 10 guavas for ₹1136. If the ratio of the cost (per piece) of mangoes, bananas, and guavas is 3: 2: 1, what will be the total cost of 1 mango, 2 bananas and 3 guavas?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. ₹127
2. ₹140
3. ₹146
4. ₹138

Solution :

The correct answer is **Option 2** i.e ₹140.

Understanding

Let the cost of mangoes per piece be $3x$.

The cost of bananas per piece be $2x$.

The cost of guavas per piece be x .

According to the question;

$$6(3x) + 3(2x) + 10(x) = 136$$

$$18x + 6x + 10x = 136$$

$$34x = 136$$

$$x = 4$$

The cost of mangoes, bananas, and guava is 12, 8, and 4 respectively.

Therefore, the cost of 1 mango = 12

Cost of 2 bananas = $8(2) = 16$

Cost of 3 guavas = $3(4) = 12$

Total cost = $12 + 16 + 12 = 40$

Question 29 :

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

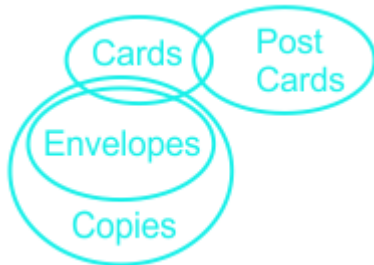
Difficulty : Moderate**Average Time : 74 Seconds****Options :**

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

Solution :

The correct answer is **Option 4** i.e **Only conclusions I and III follow.**

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

**Conclusions:**

- I. Some copies are envelopes **True** (As all envelopes are copies, so, some copies are envelopes).
- II. Some postcards are copies **False** (It is possible but no definite conclusion can be drawn).
- III. Some cards are copies **True** (As some cards are envelopes, and all envelopes are copies, so, some cards are copies).

Hence, **Only conclusions I and III follow.**

Question 30 :

_____ is the ability of a single cell to produce a fertile, adult individual.

Difficulty : Moderate

Average Time : 71 Seconds

Options :

- 1. Cloning
- 2. Pluripotency
- 3. Totipotency
- 4. Mutation

Solution :

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

- The ability of an isolated cell to develop into a **fertile adult** is proof of **totipotency** in this sense.
- A totipotent cell is also a **one-cell embryo**, meaning it is able to produce a developmentally coordinated sequence at the global level.

Question 31 :

Which of the following is one of the three 'Domestic Systemically Important Banks' in India?



Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. RBL Bank
2. Federal Bank
3. Axis Bank
4. State Bank of India (SBI)

Solution :

The correct answer is **Option 4** i.e **State Bank of India (SBI)**.

- Under the same bucketing system as the 2018 list of D-SIBs, **SBI, ICICI Bank, and HDFC Bank** are classified as Domestic Systemically Important Banks (D-SIBs).

Question 32 :

What is represented by the product of force with displacement in the direction of force?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Work
2. Momentum
3. Impulse
4. Power

Solution :

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

- The product of force and displacement is used to calculate the **work done**.
- Its unit is the **joule**.

Question 33 :

In which of the following years was the Indian Association established?

Difficulty : Moderate

Average Time : 39 Seconds

Options :



1903

2. 1881

3. 1876

4. 1856

Solution :

The correct answer is **Option 3** i.e. **1876**.

- **Surendranath Banerjee** and **Ananda Mohan Bose** established the association in Bengal in **1876**.
- It replaced the **Indian League**.
- It was a reactionary group of **landlords and industrialists**.

Question 34 :

In October 2020, the world's longest highway tunnel was inaugurated in the state of _____.

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. **Himachal Pradesh**
2. **Uttar Pradesh**
3. **Arunachal Pradesh**
4. **Madhya Pradesh**

Solution :

The correct answer is **Option 1** i.e **Himachal Pradesh**.

- On October 3, 2020, Prime Minister **Narendra Modi** officially opened the world's longest tunnel in **Himachal Pradesh**.

Question 35 :

Which of the following Articles of the Constitution of India adopted Hindi in Devanagari script as the official language of the Union?

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. **Article 343 (1)**



Article 123

3. Article 231

4. Article 108

Solution :

The correct answer is **Option 1** i.e. **Article 343 (1)**.

1. According to **Article 343 (1)** of the Constitution, **Hindi** written in **Devanagari script** shall be the **official** language of the Union.
2. **Indian numerals** in their international format must be utilised for all official purposes by the Union.

Question 36 :

Which of the following countries will host the 2022 FIFA World Cup?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. Russia
2. Qatar
3. The US
4. Brazil

Solution :

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

- **Qatar** will host **FIFA WORLD CUP 2022**.
- **32** countries will participate.
- It will be the **first** world cup in an Arab country.

Question 37 :

Who among the following persons was announced as the head of the Committee to protect language, culture and land in Ladakh by the Central Government in January 2021?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Arjun Munda

Piyush Goyal

3. G Kishan Reddy

4. Raj Kumar Singh

Solution :

The correct answer is **Option 3** i.e **G Kishan Reddy**.

- The centre took a decision to establish a committee to safeguard the **language, culture, and land of Ladakh**.
- **G Kishan Reddy** was chosen to serve the committee's chair.

Question 38 :

Who among the following wrote the basic text of Vaisheshika philosophy?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Jaimini
2. Kanada
3. Patanjali
4. Shankaracharya

Solution :

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

- One of the six systems (darshans) of Indian philosophy, **Vaisheshika** is notable for its **naturalism**.
- It stands out from the majority of Indian philosophical traditions.
- The school is attributed to the Sanskrit philosopher **Kanada Kashyapa**.

Question 39 :

Whose administration became a model that was followed by Akbar when he consolidated the Mughal Empire?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Ghiyas ud din Balban
2. Bahlul Lodi
3. Iltutmish



Sher Shah Suri

Solution :

The correct answer is **Option 4** i.e. **Sher Shah Suri**.

- Akbar complied with **Sher Shah Suri's rules and regulations**.
- Sher Shah Suri was the founder of the Suri Empire in India.
 - He introduced the currency of the Rupee.
 - Sher Shah of Sur took control of the Mughal Empire in 1540.
 - His reorganization of the empire laid the foundations for the later Mughal emperors, notably Akbar, son of Humayun.
- Sher Shah Suri's administration:
 - He organized an excellent administrative system.
 - The king was aided by four important ministers.
 - Diwan-i-Wizarat or Wazir - in charge of Revenue and Finance
 - Diwan-i-Ariz - in charge of the Army
 - Diwan-i-Rasalat - Foreign Minister
 - Diwan-i-Insha - Minister for Communications

Question 40 :

Which two great footballers, who were members of the gold medal winning team of 1962 Asian Games, passed away in 2020?

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. Ram Bahadur and Jarnail Singh
2. Yousuf Khan and TA Rahaman
3. Krishanu Dey and C Prasad
4. Chuni Goswami and PK Banerjee

Solution :

The correct answer is **Option 4** i.e **Chuni Goswami and PK Banerjee**.

- In **1962**, Subimal (Chuni) Goswami led India to the Asian Games **gold** medal.
- In April 2020, Subimal Goswami passed away.
- In March 2020, PK Banerjee passed away.

Question 41 :

How is Dhanpat Rai Srivastava better known as?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Premchand
2. Dinkar
3. Nirala
4. Agyeya

Solution :

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

- **Premchand**, often written **Prem Chand**, is Dhanpat Rai Srivastava's fictitious name.
- He was an Indian author who was a pioneer in fusing Indian subjects with Western literary methods..

Question 42 :

In January 2021, who among the following was appointed as the President of the Asian Cricket Council?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Sourav Ganguly
2. Anil Kumble
3. Rahul Dravid
4. Jay Shah

Solution :

The correct answer is **Option 4** i.e **Jay Shah**.

- **Jay Shah** has served as the **Board of Control for Cricket in India's (BCCI) Secretary** since 2019.
- Shah was earlier chosen to lead the **ACC** in **January 2021**, taking over for Nazmul Hassan, the head of the Bangladesh Cricket Board (BCB).

Question 43 :

Who wrote the book 'The Quest for Equity in Development'?

Difficulty : Moderate

Average Time : 47 Seconds

**Options :**

1. Raghuram Rajan
2. Montek Singh Ahluwalia
3. Amartya Sen
4. Manmohan Singh

Solution :

The correct answer is **Option 4** i.e. **Manmohan Singh**.

- The Quest for Equity in Development is written by **Dr. Manmohan Singh**.
- He served as the **13th Prime minister of India** from **2004-2014**.

Question 44 :

In which of the following states is the Bhitarkanika National Park situated?

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

1. Meghalaya
2. Kerala
3. Odisha
4. Goa

Solution :

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

- Bhitarkanika National Park is a 145 km² (56 sq mi) large national park in northeast Kendrapara district in Odisha in eastern India.
- It was designated on 16 September 1998 and obtained the status of a Ramsar site on 19 August 2002.

Question 45 :

Which of the following element salts are most soluble?

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

1. Potassium



Rubidium

3. Sodium

4. Lithium

Solution :

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

- If the **hydration energy** of the compound is greater than the **lattice energy** the solubility is more.
- The hydration energy of **sodium** is higher than its lattice energy, hence the salts are the most soluble.

Question 46 :

Which of the following is NOT a greenhouse gas?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Nitrous oxide
2. Water vapour
3. Surface level ozone
4. Helium

Solution :

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

- Greenhouse gases on Earth trap heat in the atmosphere, warming the whole globe.
- **Carbon dioxide, methane, nitrous oxide, water vapour**, are the major gases that cause the greenhouse effect.

Question 47 :

The Vedic view of an individual and his relation to society is determined by four objectives of life. Which of the following is NOT one of these objectives?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Dharma
2. Moksha
3. Siddhi



Artha

Solution :

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

- Human life has a certain purpose, according to Vedic philosophy.
- There are three more aims in life in addition to "**Moksha**," which is the ultimate objective.
- The three intermediary aims are **dharma, artha, and karma**.

Question 48 :

What do you call the amount of monetary or other returns, either earned or unearned, accrued over a period of time?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. **Income**
2. Services
3. Price
4. Value

Solution :

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

- The amount of money or other returns that are **earned or unearned and accumulate** over time is the **income** amount.
- **Income** is the money that an individual or organisation receives in exchange for labouring, delivering a good or service, or putting money into a business.

Question 49 :

In which year did Atal Bihari Vajpayee undertake a bus journey to Lahore to sign a Peace Declaration?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. **1999**
2. 1997
3. 1991
4. 1994

**Solution :**

The correct answer is **Option 1** i.e **1999**.

- The first bus service between the two nations, was announced on **February 11, 1999**.
- Then Indian Prime Minister **Atal Bihari Vajpayee** made the state visit.

Question 50 :

Pushyabhuti, who ruled from Thaneswar, was the founder of the _____ dynasty.

Difficulty : Moderate**Average Time : 40 Seconds****Options :**

1. Chera
2. Pandya
3. Vardhana
4. Chalukya

Solution :

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

- The **Pushyabhuti Dynasty** is another name for the **Vardhana Dynasty**.
- This dynasty is founded by **Pushyabhuti**.
- The Vardhana Dynasty's first prominent king was **Prabhakar Vardhana**.

Question 51 :

All matches of the 2020-21 edition of Hero Indian Super League are being played in which of the following states?

Difficulty : Moderate**Average Time : 45 Seconds****Options :**

1. West Bengal
2. Goa
3. Karnataka
4. Kerala

Solution :

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

- The **2020–21** season will include three sites in **Goa** with all games taking place behind closed doors due to the

COVID-19 pandemic.

- The locations include the **Tilak Maidan Stadium in Vasco do Gama, the GMC Athletic Stadium in Bambolim, and the Fatorda Stadium in Margao.**

Question 52 :

Which of the following is another name for 'white ant'?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Housefly
2. Mosquito
3. Wasp
4. Termite

Solution :

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

- White ants essentially have a body hue of pale with three body parts: **the head, thorax, and abdomen.**
- They reside in **sizable communities.**
- These two factors are similar hence, **termites are often known as "white ants".**

Question 53 :

Till 20 January 1972, which present-day Indian state was known as the North-East Frontier Agency (NEFA)?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

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

Solution :

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

Pradesh.

- The region NEFA was originally a part of **Assam.**



In **1972** was turned into union territory of **Arunachal Pradesh**.

- Turned into an Indian state in **1987**.

Question 54 :

Almost 98% of Earth's crust is made up of eight elements. Which of the following does not figure among these elements?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Carbon
2. Silicon
3. Calcium
4. Oxygen

Solution :

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

- **88.1 percent** of the mass of the Earth's crust is made up of the elements oxygen, silicon, aluminum, and iron.
- The remaining **11.9 percent** is made up of **another 90 elements**.
- The Earth's crust contains the most **oxygen** by mass.

Question 55 :

In $\triangle ABC$, D and E are the points on sides AB and AC, respectively and $DE \parallel BC$. $BC = 8\text{cm}$ and $DE = 5\text{cm}$. If the area of $\triangle ADE = 45\text{ cm}^2$, then what is the area (in cm^2) of $\triangle ABC$?

Difficulty : Moderate

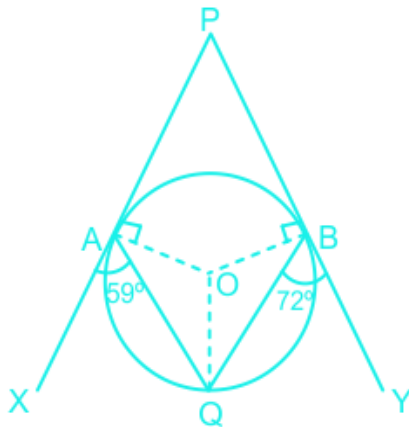
Average Time : 53 Seconds

Options :

1. 115.2
2. 105.2
3. 125
4. 64

Solution :

The correct answer is **Option 1** i.e **115.2**.



Here DE is parallel to BC so one can say that $\triangle ADE$ and $\triangle ABC$ are similar.

$$\frac{\text{Area of } \triangle ADE}{\text{Area of } \triangle ABC} = \left(\frac{5}{8}\right)^2$$

$$\frac{45}{\triangle ABC} = \frac{25}{64}$$

$$\text{Area of } \triangle ABC = 115.2 \text{ cm}^2.$$

Question 56 :

A $\triangle ABC$ has sides 5 cm, 6 cm and 7 cm. AB extended touches a circle at P and AC extended touches the same circle at Q. Find the length (in cm) of AQ.

Difficulty : Moderate

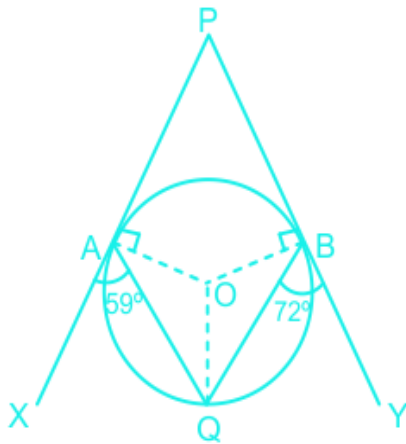
Average Time : 59 Seconds

Options :

1. 13
2. 9
3. 11
4. 12

Solution :

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



Let $BM = x$ and $CM = (6 - x)$

As one knows that the length of tangents drawn from the same external point is equal.

So one can say that $BM = BP = x$ and $CM = CQ = 6 - x$

Similarly, $AP = AQ$

$$5 + x = 7 + 6 - x$$

$$x = 4$$

$$AQ = 7 + 6 - 4 = 9\text{cm.}$$

Question 57 :

2 men and 7 women can complete a work in 28 days whereas 6 men and 16 women can do the same work in 11 days. In how many days can 7 men complete the same work?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. 11

2. 22

3. 12

4. 24

Solution :

The correct answer is **Option 2** i.e **22**.

Let the efficiency of 1 man and 1 woman be 'm' and 'w' unit.



Now according to the question,

$$(2m + 7w) \times 28 = (6m + 16w) \times 11.$$

$$m = 2w.$$

Total work = $11w \times 28$.

Number of days required by 7 men to finish the same work,

$$\left(\rightarrow \frac{11w \times 28}{7m} = \frac{11w \times 28}{14w}\right)$$

22 days

Question 58 :

The value of $32 \div 12$ of $3 \times [5 - (15 - 12) \div 9]$ of $(\frac{37}{4}) + 4 - 8 \div 2$ of 4 is:

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. $(\frac{3}{13})$
2. $(\frac{4}{79})$
3. $(\frac{3}{16})$
4. $(\frac{1}{79})$

Solution :

The correct answer is **Option 2** i.e. $(\frac{4}{79})$

One can solve this question by using the concept of BODMAS

$$32 \div 12 \text{ of } 3 \times [5 - (15 - 12) \div 9] \text{ of } (\frac{37}{4}) + 4 - 8 \div 2 \text{ of } 4$$

$$32 \div 12 \text{ of } 3 \times [5 - 3 \div 9] \text{ of } (\frac{37}{4}) + 4 - 8 \div 2 \text{ of } 4$$

$$32 \div 12 \text{ of } 3 \times 14/3 \text{ of } (\frac{37}{4}) + 4 - 8 \div 2 \text{ of } 4$$

$$32 \div 12 \text{ of } 3 \times 2 + 4 - 8 \div 2 \text{ of } 4$$

$$32 \div 36 \times 2 + 4 - 8 \div 8$$

$$16/9 + 4 - 1$$

$$(\frac{4}{79})$$

Question 59 :



A certain number of student from school X appeared in an examination and 20% students failed. From school Y. 130% more students than that school X, appeared in the same examination. If 90% of the total of students appeared from both the schools passed, then what is the percentage of students from school Y who failed (correct to one decimal place)?

Difficulty : Moderate

Average Time : 103 Seconds

Options :

1. 6.4%
2. 10%
3. 5.7%
4. 8.3%

Solution :

The correct answer is **Option 3** i.e **5.7%**

Let the number of students in School X = $100a$

The number of students in School Y = $230a$. (130% more than X)

20% students of School X are failed = $20a$

Number of students from school X who pass the examination = $100a - 20a = 80a$.

Total number of students from school X and Y = $330a$

90% of total students passed the examination = $90/100 \times 330a = 297a$

Number of students who pass from School Y = $297a - 80a = 217a$

Number of students who failed from School Y = $230a - 217a = 13a$.

Percentage of students from school Y who failed the examination = $13a / 230a \times 100 = 5.7\%$

Question 60 :

The table shows the daily income (in ₹) of 50 persons. Study the table and answer the question: Income (RS) No. of Persons less than 200 12 less than 250 26 less than 300 34 less than 350 40 less than 400 50 How many persons earn ₹1,200 or more but less than ₹1,300?

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. 12



38

3. 22

4. 8

Solution :

The correct answer is **Option 3** i.e **22**.

According to the question,

There are 12 people who earn less than ₹1,200.

There are 26 people who earn less than ₹1,250. In this case, 12 people were also included who earn less than ₹1,200.

So one can say that there are **14 people (26 - 12)** who earn more than ₹1,200 but less than ₹1,250.

There are 34 people who earn less than ₹1,300. In this case, those 26 people also included who earn less than ₹1,250.

So one can say that there are 8 people (34 - 26) who earn more than ₹1,250 and less than ₹1,300.

The total number of a person who earns more than ₹1,200 and less than ₹1,300 = 14 + 8 = **22**.

Question 61 :

A sum of ₹ 31866 is divided between A, B, and C such that the ratio of shares of A and B is 9 : 8 and that of A and C is 4 : 5 The share (in ₹) of B is:

Difficulty : Moderate**Average Time : 66 Seconds****Options :**

1. 9024

2. 12690

3. 10152

4. 8460

Solution :

The correct answer is **Option 1** i.e **9024**.

It is given that,

$A : B = 9 : 8$ and $A : C = 4 : 5$.



In both, the ratio A is common so the value of A must be equal.

to make A equal in both the ratio one must multiply the first ratio by 4 and the second ratio by 9,

Now $A : B = 36 : 32$ and $A : C = 36 : 45$

So $A : B : C = 36 : 32 : 45$.

Share of B = $\left(\frac{32}{113}\right) \times 31866 = \hat{a},9024$.

Question 62 :

Find the value of $(\frac{34}{4}) \cot^2 30^\circ + \cos^2 30^\circ - 3 \operatorname{cosec} 260^\circ + \tan 260^\circ$.

Difficulty : Moderate

Average Time : 52 Seconds

Options :

- 4
- 10
- $\left(\frac{\sqrt{3}}{4}\right)$
- 2

Solution :

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

One can solve such types of questions by directly putting the value of trigonometric ratios.

$$\left(\frac{34}{4}\right) \cot^2 30^\circ + \cos^2 30^\circ - 3 \operatorname{cosec}^2 60^\circ + \tan^2 60^\circ = \left(\frac{34}{4}\right) \times \left(\frac{\sqrt{3}}{3}\right)^2 + \left(\frac{\sqrt{3}}{2}\right)^2 - 3 \times \left(\frac{2}{\sqrt{3}}\right)^2 + (\sqrt{3})^2$$

$$9/4 + 3/4 - 4 + 3$$

$$3 - 4 + 3$$

2.

Question 63 :

A certain sum becomes Rs.13650 at 15% p.a; simple interest after 2 years. What will be the amount (in Rs.) of the same sum after 1 year at the same rate of interest, if the interest is compounded half-yearly? (nearest to Rs.)

Difficulty : Moderate

Average Time : 59 Seconds

Options :

- 12134



10500

3. 13625

4. 11000

Solution :

The correct answer is **Option 1** i.e **12134**.

Here it is given that the sum becomes $\hat{a}, 13650$ at 15% pa simple interest in 2 years

It implies that the sum becomes 130% percent of itself

Principal = $13650/1.3 = \text{Rs.}10500$

As one knows that the in case of half-yearly the rate becomes half

1 year = 2 half years

The same sum after 1 year at 15% compounded half-yearly becomes,

$\left(\rightarrow 10500 \times \left(1 + \frac{7.5}{100}\right)^2 \rightarrow 10500 \times 1.075 \times 1.075 \rightarrow \hat{a}, 12134.\right)$

Question 64 :

In a circle with centre O, PAX and PBX are the tangents of the circle at points A and B, from an external point P. Q is any point on the circle such that $\angle QAX = 59^\circ$ and $\angle QBX = 72^\circ$. What is the measure of $\angle AQB$?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. 81°

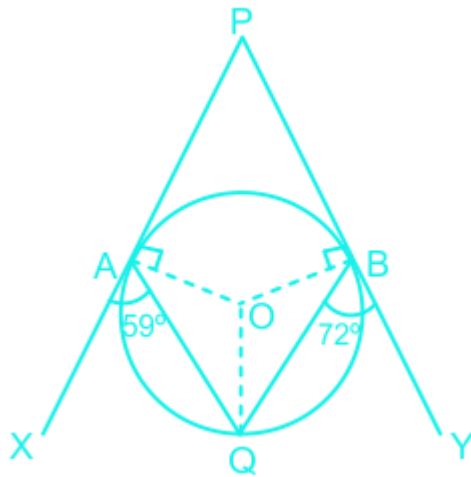
2. 72°

3. 49°

4. 59°

Solution :

The correct answer is **Option 3** i.e 49° .



From the given figure one can conclude that,

OA = OB = OQ = Radius.

$$\angle OAX = \angle OBY = 90^\circ$$

Now $\angle OAQ = 90^\circ - 59^\circ = 31^\circ$.

$$\angle OBY = 90^\circ - 72^\circ = 18^\circ.$$

Here $OA = OQ$ so $\angle OAQ = \angle OQA = 31^\circ$.

$OB = OQ$ so $\angle OBQ = \angle OQB = 18^\circ$

$$\angle AQB = \angle OQA + \angle OQB = 31 + 18 = 49^\circ.$$

Question 65 :

By selling an article for ₹ 640, a person loses 15% of its selling price. At what price (in ₹) should he sell it to gain 15% on its cost price?

Difficulty : Moderate

Average Time : 75 Seconds

Options :

- 1. 832
- 2. 846.40
- 3. 835
- 4. 836.60

Solution :

The correct answer is **Option 2** i.e **846.40**.

Here the selling price = ₹ 640.

According to the question a person losses 15% of their selling price.

Cost price of the article = $640 \times \left(\frac{100 + 15}{100}\right) = ₹ 736$.

Now the person wants to gain 15% of its cost price.

New selling price = $736 \times \left(\frac{100 + 15}{100}\right) = ₹ 846.40$.

Question 66 :

Study the following table and answer the question: The number of students enrolled for Vocational Course (VC) in institutes A, B, C, D, E & F. Institutes Years 2014 2015 2016 2017 2018 A 110 150 165 180 205 B 120 180 176 200 220 C 140 220 180 175 225 D 125 210 175 180 230 E 150 200 160 200 240 F 165 230 200 220 210 The ratio of the total number of students enrolled for VC in institutes A, C and E in 2015 to the total number of students enrolled in institutes B and D in 2017, is:

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

1. 9 : 10
2. 3 : 4
3. 3 : 2
4. 10 : 11

Solution :

The correct answer is **Option 3** i.e **3 : 2**.

The total number of students enrolled for VC in institutes A, C and E in 2015 = $150 + 220 + 200 = 570$

The total number of students enrolled in institutes B and D in 2017 = $200 + 180 = 380$

Required ratio = $570 : 380 = 3 : 2$.

Question 67 :

The marked price of an article is ₹ 1500. A shopkeeper sells it by giving 20% discount on its marked price. If the cost price of the article is ₹ 991, then his profit (in ₹) is:

Difficulty : Moderate**Average Time : 46 Seconds****Options :**



209

2. 319

3. 229

4. 189

Solution :

The correct answer is **Option 1** i.e **209**.

20% means $\frac{1}{5}$, it implies that if the Marked price is $\hat{a},^{15}$ then the discount is $\hat{a},^{11}$ and the Selling price become $\hat{a},^{14}$.

Let the marked price of an article is **5x** and the discount is **x** and the selling price of an article is **4x**.

$$5x = 1500$$

$$x = 300.$$

Selling price of the same article = $4x = 4 \times 300 = \text{Rs } 1200$.

Cost price = Rs 991.

Required profit = $1200 - 991 = \text{Rs } 209$.

Question 68 :

$(\sqrt{\sec^2 \theta + \operatorname{cosec}^2 \theta}) \times \frac{\sin \theta (1 + \cos \theta)}{1 + \cos \theta - \sin^2 \theta}$ 0° (θ) 90° is equal to :

Difficulty : Moderate**Average Time : 56 Seconds****Options :**1. \sec^2 2. cosec^2 3. \cot 4. \tan **Solution :**

The correct answer is **Option 1** i.e \sec^2 .

$(\sqrt{\sec^2 \theta + \operatorname{cosec}^2 \theta}) \times \frac{\sin \theta (1 + \cos \theta)}{1 + \cos \theta - \sin^2 \theta}$ can be written as,

$$\left(\sqrt{\frac{1}{\cos^2 \theta} + \frac{1}{\sin^2 \theta}}\right) \times \frac{\sin \theta}{(1 + \cos \theta)(1 + \cos \theta)}$$

$$\left(\sqrt{\sec^2 \theta \times \csc^2 \theta}\right) \times \frac{\sin \theta}{\cos \theta}$$

$$\sec(\theta) \times \csc(\theta) \times \left(\frac{\sin \theta}{\cos \theta}\right)$$

$$\sec(\theta) \times \csc(\theta) \times \left(\frac{\sec \theta}{\csc \theta}\right)$$

$$(\sec^2 \theta)$$

Question 69 :

If $x + y + z = 7$, $x^2 + y^2 + z^2 = 85$ and $x^3 + y^3 + z^3 = 913$, then the value of $(\sqrt[3]{xyz})$ is :

Difficulty : Moderate

Average Time : 74 Seconds

Options :

- 1. 1
- 2. 2
- 3. 4
- 4. 8

Solution :

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

Here it is given that,

$$x + y + z = 7, x^2 + y^2 + z^2 = 85 \text{ and } x^3 + y^3 + z^3 = 913.$$

One knows that,

$$(x + y + z)^2 = x^2 + y^2 + z^2 + 2(xy + yz + zx)$$

$$(7)^2 = 85 + 2(xy + yz + zx)$$

$$xy + yz + zx = -18 \dots \dots \dots (1)$$

Now one also knows that,

$$x^3 + y^3 + z^3 + 3xyz = (x + y + z)(x^2 + y^2 + z^2 - (xy + yz + zx))$$

$$913 + 3xyz = 7 \times (85 + 18)$$



$$913 + 3xyz = 721$$

$$xyz = 64$$

$$\sqrt[3]{xyz} = 4.$$

Question 70 :

A takes 8 hours more than the time taken by B to cover a distance of 160 km. If A doubles his speed, he takes 3 hours more than B to cover the same distance. the speed (in km/h) of B is:

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. 72
2. 70
3. 75
4. 80

Solution :

The correct answer is **Option 4** i.e. **80 km/hr**.

Let the speed of A and B be 'a' km/hr and 'b' km/hr.

According to the question,

$$\frac{160}{a} - \frac{160}{b} = 8 \dots\dots\dots(1)$$

If A doubles his speed then it takes 3 hours more than B.

$$\frac{160}{2a} - \frac{160}{b} = 3 \dots\dots\dots(2)$$

Subtract equation (2) from equation (1) we get,

$$\frac{160}{a} - \frac{80}{a} = 5$$

$$a = 16 \text{ km/hr.}$$

Put the value of a in equation 1 we get b = 80 km/hr.

Question 71 :

The curved surface area of the cylinder is 462 cm² and its base area is 346.5 cm². What is the volume (in cm³) of the cylinder? (Use (pi) = 22/7)

Difficulty : Moderate

Average Time : 59 Seconds



Options :

1. 2400
2. 2425.5
3. 4800
4. 4850

Solution :

The correct answer is **Option 2** i.e **2425.5**.

Let the radius and height of a cylinder be 'r cm' and 'h cm'.

Area of the base of a cylinder = 346.5

$$\pi r^2 = 346.5$$

$$r^2 = 110.25$$

$$r = 10.5 \text{ cm.}$$

Now the curved surface of a cylinder = 462

$$2\pi rh = 462$$

$$2 \times \frac{22}{7} \times 10.5 \times h = 462$$

$$h = 7 \text{ cm.}$$

Now the volume of the cylinder = $\pi r^2 h$

$$\frac{22}{7} \times 10.5 \times 10.5 \times 7 = 2425.5 \text{ cm}^2.$$

Question 72 :

The data given in the table shows the number of students studying in four different disciplines in 5 institutes. Study the table and answer the question: Institute Arts Science Commerce Computer Science A 36 48 59 57 B 45 54 55 48 C 55 36 56 51 D 45 48 55 53 E 48 44 52 55 By what percent is the number of students studying Computer Science in institutes A and B more than the number of students studying Arts in institutes B and C?

Difficulty : Moderate

Average Time : 78 Seconds

Options :

1. 5
2. 14

2

4. 24

Solution :

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

The Number of students who studying Computer Science in institutes A and B = $57 + 48 = 105$

The Number of students who studying Arts in institutes B and C = $45 + 55 = 100$

Required difference = $105 - 100 = 5$

Question 73 :

if $\cos(A - B) = \left(\frac{\sqrt{3}}{2}\right)$ and $\cot(A + B) = \left(\frac{1}{\sqrt{3}}\right)$, where $A - B$ and $A + B$ are acute angles, then $(2A - 3B)$ is equal to:

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

1. 45°
2. 30°
3. 15°
4. 60°

Solution :

The correct answer is **Option 1** i.e 45° .

Here it is given that,

$$\cos(A - B) = \left(\frac{\sqrt{3}}{2}\right) \implies \cos(A - B) = \cos(30^\circ)$$

$$\text{So } (A - B) = 30^\circ \dots\dots(1)$$

$$\cot(A + B) = \left(\frac{1}{\sqrt{3}}\right) \implies \cot(A + B) = \cot(60^\circ)$$

$$\text{So } (A + B) = 60^\circ \dots\dots(2)$$

On solving equation (1) and (2) one get

$A = 45^\circ$ and $B = 15^\circ$

Now the required value of $(2A - 3B) = (90 - 45) = 45^\circ$

Question 74 :

If $((54\sqrt{2}x^3) + ((24\sqrt{3}y)^3) \div ((\sqrt{18}x + \sqrt{12}y) = Ax^2 + By^2 + Cxy)$, then what is the value of $A^2 - (B^2 + C^2)$?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 12
2. -36
3. -24
4. 24

Solution :

The correct answer is **Option 2** i.e **-36**.

Here one can see that the numerator part can be further simplified as $\sqrt{((3\sqrt{2}x)^3 + (2\sqrt{3}y)^3)}$ and the denominator part can be simplified as $\sqrt{(3\sqrt{2}x + 2\sqrt{3}y)}$

As one knows that $[a^3 + b^3 = a^2 \cdot a + ab^2 + b^2 \cdot b]$

Now one has $\frac{((3\sqrt{2}x)^3 + (2\sqrt{3}y)^3)}{(3\sqrt{2}x + 2\sqrt{3}y)}$

By using the above identity we get,

$$\Rightarrow \frac{(3\sqrt{2}x + 2\sqrt{3}y) \times [18x^2 + 12y^2 - 6\sqrt{6}xy]}{(3\sqrt{2}x + 2\sqrt{3}y)} = Ax^2 + By^2 + Cxy$$

$$\Rightarrow 18x^2 + 12y^2 - 6\sqrt{6}xy = Ax^2 + By^2 + Cxy$$

On comparing L.H.S and R.H.S one gets

$$A = 18 \text{ and } B = 12 \text{ and } C = \sqrt{-6\sqrt{6}}$$

Here one has to find the value of $A^2 - (B^2 + C^2)$

$$= 18^2 - (12^2 + (\sqrt{-6\sqrt{6}})^2)$$

$$= -36.$$

Question 75 :

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 sea has become / an cheap dumping ground / for all kinds / of waste products.



Difficulty : Moderate

Average Time : 92 Seconds

Options :

1. of waste products
2. an cheap dumping ground
3. for all kinds
4. The sea has become

Solution :

The correct answer is **Option 2** i.e **an cheap dumping ground**.

- The given sentence has a grammatical error.
- 'An cheap dumping ground' is erroneous and needs to be replaced with 'a cheap dumping ground'.
- The article '**an**' should be used before singular, countable nouns beginning with vowel sounds.
- **Cheap** starts with a consonant sound, hence '**a**' should be used.

The correct statement is-

*The sea has become **a cheap dumping ground** for all kinds of waste products.*

Question 76 :

Select the most appropriate meaning of the given idiom. Herculean task

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. A job that requires a lot of talking and information
2. A job that makes everyone feel proud
3. A job that requires a large amount of physical strength
4. A job that only weak people are assigned

Solution :

The correct answer is **Option 3** i.e **A job that requires a large amount of physical strength**.

The most appropriate meaning of the idiom, '**Herculean task**' is **A job that requires a large amount of physical strength**.

Question 77 :

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. Most important, however, are its oils, which are extracted, processed, and marketed for culinary, medicinal, and cosmetic uses alike. B. Coconut products are used to make everything from clothing to animal feed to beauty creams. C. The coconut is a very useful plant with a wide range of products being sourced from it. D. Its kernel is harvested for its edible flesh and delicious water, while its husk is used for its strong fibers.

Difficulty : Moderate

Average Time : 77 Seconds

Options :

1. CADB
2. BCAD
3. ADBC
4. CBDA

Solution :

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

- The best way to go about such questions is by finding an **opening statement** or **pairs of sentences**.
- **Sentence C** is an independent statement talking about how useful the coconut plant is.
- **Sentence B** is then followed by **sentence C** as it tells us how coconuts can be used in daily life.
- **Sentence D** further provides an explanation for **sentence B**.
- **Sentence A** will be used at last.

The correct paragraph is-

The coconut is a very useful plant with a wide range of products being sourced from it. Coconut products are used to make everything from clothing to animal feed to beauty creams. Its kernel is harvested for its edible flesh and delicious water, while its husk is used for its strong fibers. Most important, however, are its oils, which are extracted, processed, and marketed for culinary, medicinal, and cosmetic uses alike.

Question 78 :

Select the option that expresses the given sentence in indirect speech. "How beautiful she is!" said Betty.

Difficulty : Moderate

Average Time : 81 Seconds

Options :

1. Betty exclaimed with joy how beautiful she was.
2. Betty exclaimed with joy that she was very beautiful.
3. Betty exclaimed with joy how beautiful she is.



Betty exclaimed with joy she is very beautiful.

Solution :

The correct answer is **Option 2** i.e **Betty exclaimed with joy that she was very beautiful.**

- The given sentences of exclamatory one.
- Reporting verbs are changed according to the reported speech. These verbs are: '**exclaimed with surprise, exclaimed with contempt**', etc.
- '**That**' is used in place of '**inverted commas**'.
- '**Tense, Pronoun, and adverbials**' are changed according to an assertive sentence.
- '**said**' will be changed into '**exclaimed with joy**' the notion of the given sentence is **joy**.
- '**is**' will be changed into '**was**'.

The correct sentence is-

Betty exclaimed with joy that she was very beautiful.

Question 79 :

Select the INCORRECTLY spelt word.

Difficulty : Moderate

Average Time : 72 Seconds

Options :

1. Cancellation
2. Incriminating
3. Unpretentious
4. Embodiment

Solution :

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

The correct spelling of the word is **Unpretentious.**

The meaning of the given options is-

- **Cancellation:** the action of canceling something.
- **Incriminating:** making someone appear guilty of a crime or wrongdoing.
- **Unpretentious:** (of a place) pleasantly simple and functional; modest.



Embodiment: a tangible or visible form of an idea, quality, or feeling.

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Question 80 :

Select the option that expresses the given sentence in passive voice. The man bought a parrot that could speak five languages.

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. A parrot that could spoke five languages bought the man.
2. A parrot that spoke five languages was bought by the man.
3. A parrot that spoken five languages was bought by the man.
4. A parrot that spoke five languages had been bought by the man.

Solution :

The correct answer is **Option 2** i.e **A parrot that spoke five languages was bought by the man.**

- "A parrot that could speak" is an ability of a parrot which was in the past tense implying that these were the skills or talents that a person had.
- We are talking about general skills or talents- not about a specific occasion. In these cases, we should not use could, instead of we can use was/were/ or the past tense.
- The parrot had the ability in the past hence we can represent it with the past tense as well.
- The main clause 'bought' will be changed into 'was bought'.
- Rest will remain unchanged.

The correct sentence is-

A parrot that spoke five languages was bought by the man.

Question 81 :

Select the INCORRECTLY spelt word.

Difficulty : Moderate

Average Time : 77 Seconds

Options :

Pledge

2. Aquarium

3. Abridge

4. Bouquet

Solution :

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

The correct spelling is **Aquarium**.

The meaning of the given options is-

- **Pledge:** A formal promise or agreement
- **Aquarium:** A glass container filled with water, in which fish and animals are kept.
- **Abridge:** To make something shorter
- **Bouquet:** A bunch of flowers.

Question 82 :

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution required'. Hears to the news tonight at 9 p.m., as there will be an important announcement about the budget.

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Listened to
2. Hear to
3. No substitution required
4. Listen to

Solution :

The correct answer is **Option 4** i.e **Listen to** .

- The error lies in '**hears to**' which should be replaced by '**listen to**'.
- **Hearing** is a natural process that automatically happens whereas '**Listening**' on the other hand is an action i.e., something we do consciously.
- In the given context, '**Listen to**' should be used as **listening to** the news is an action that we consciously do.

The correct sentence is-

Listen to the news tonight at 9 p.m., as there will be an important announcement about the budget.

Question 83 :

Select the most appropriate ANTONYM of the given word. Stalwart

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. Firm
2. Robust
3. Cowardly
4. Stout

Solution :

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

The meaning of the given options is-

- **Stalwart:** loyal, reliable, and hard-working.
- **Firm:** having a solid, almost unyielding surface or structure.
- **Robust:** strong and healthy; vigorous.
- **Cowardly:** lacking courage.
- **Stout:** rather fat or of heavy build.

The most appropriate antonym of **Stalwart** is **Cowardly**.

Question 84 :

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'. Either the bear or the lion has escaped from the zoo.

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. is escaped from the zoo
2. have escaped from the zoo
3. No substitution



are escaped from the zoo

Solution :

The correct answer is **Option 3** i.e **No substitution**.

- The given statement is both **grammatically** as well as **contextually correct**.
- We know that if two subjects are connected with '**neither...nor**', '**either...or**', '**not only...but also**', '**or**', etc.
- The verb should be used according to the nearest subject of the sentence.
- In the given sentence, '**the lion**' is the nearest subject and is **singular**.
- A singular helping verb will be used.

The correct sentence is-

Either the bear or the lion has escaped from the zoo.

Question 85 :

Select the option that can be used as a one-word substitute for the given group of words. One who studies the occult meanings of numbers and their supposed influence on human life

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. Astronomer
2. Numerologist
3. Prophet
4. Astrologer

Solution :

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

The meaning of other given options is-

- **Astronomer**: an expert in or student of astronomy.
- **Numerologist**: a believer in numerology.
- **Prophet**: a person regarded as an inspired teacher or proclaimer of the will of God.
- **Astrologer**: a person who uses astrology to tell others about their character or to predict their future.

The most appropriate word for '**One who studies the occult meanings of numbers and their supposed influence on human life**'

is **Numerologist**.

Question 86 :

Select the most appropriate synonym of the given word. Munch

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Flew
2. Chew
3. Drew
4. Burp

Solution :

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

The meaning of the given options is-

- **Flew:** fly in the air.
- **Chew:** to bite something with teeth continuously.
- **Drew:** to draw a picture or diagram.
- **Burp:** noisily release air from the stomach through the mouth.

The most appropriate synonym for **munch** is **chew**.

Question 87 :

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. But in snapping at the supposed treasure, he dropped the bit he was carrying, and so lost all. B. When he was crossing a river on his way home, he saw his own shadow reflected in the stream below. C. Thinking that it was another dog with another piece of meat, he resolved to make himself master of that also. D. A dog had stolen a piece of meat out of a butcher's shop.

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. DBCA
2. BDCA
3. DACB
4. ACDB

Solution :



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

- The best approach to solving such a question is by finding an **opening statement** and a **pair of sentences**.
- **Sentence D** is clearly the opening statement that talks about a dog who has stolen a piece of meat from a butcher's shop.
- **Sentence B** will be followed by **sentence D** as it tells what the dog does post stealing a piece of meat.
- **Sentence C** will be next to **Sentence B** as it further explains the dog's activity on his way home.
- **Sentence A** is the conclusive statement of the given paragraph, stating the consequence of the dog's actions.

The correct paragraph is-

A dog had stolen a piece of meat out of a butcher's shop. When he was crossing a river on his way home, he saw his own shadow reflected in the stream below. Thinking that it was another dog with another piece of meat, he resolved to make himself master of that also. But in snapping at the supposed treasure, he dropped the bit he was carrying, and so lost all.

Question 88 :

Select the most appropriate ANTONYM of the given word. Slur

Difficulty : Moderate

Average Time : 88 Seconds

Options :

1. Mixture
2. Assortment
3. Compliment
4. Insult

Solution :

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

The meaning of the given options is-

- **Mixture:** a combination of different things
- **Assortment:** a group of different things or a group of different
- **Compliment:** a statement or action to show admiration for somebody
- **Insult:** to speak or act rudely to somebody.

The most appropriate antonym for **Slur** is **compliment**.

Question 89 :

Select the option that can be used as a one-word substitute for the given group of words. Having no boundaries or limits



Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Tremendous
2. infinite
3. Enormous
4. Colossal

Solution :

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

The meaning of the given options-

- **Tremendous:** Very large or huge.
- **Infinite:** without limits; that never ends.
- **Enormous:** Very big or very great.
- **Colossal:** Extremely large.

The most appropriate word for the given group of words is '**infinite**'.

Question 90 :

Select the most appropriate option to fill in the blank. Social isolation, overcrowding, the _____ of our society and several other factors are responsible for stress.

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. cheapness
2. competitiveness
3. attractiveness
4. affordability

Solution :

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



The meaning of the given options is-

- **cheapness:** the quality of being low in price, especially in relation to similar items or services.
- **competitiveness:** relating to or characterized by competition.
- **attractiveness:** the quality of being pleasing or appealing to the senses.
- **affordability:** ability to be afforded; inexpensiveness.

The word competitiveness means '**possession of a strong desire to be more successful than others**'.

The correct sentence is-

*Social isolation, overcrowding, the **competitiveness** of our society, and several other factors are responsible for stress.*

Question 91 :

The following sentence has been split into four segments. Identify the segment that contains a grammatical error. Won't you / please come / to help me / along this heavy box?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. to help me
2. Won't you
3. please come
4. along this heavy box

Solution :

The correct answer is **Option 4** i.e **along this heavy box**.

- The grammatical error lies in '**along this heavy box**' which should be replaced by '**along with this heavy box**' .
- The phrase '**along with**' means '**in company with or at the same time as.**'
- The word '**along**' is followed by '**with**'.

The correct sentence is-

*Won't you please come to help me **along with** this heavy box.*

Question 92 :

Select the most appropriate synonym of the given word. Termination



Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Conduction
2. Conclusion
3. Consolation
4. Conviction

Solution :

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

The meaning of the given options are-

- **Termination:** The action of terminating something.
- **Conduction:** The process by which heat or electricity passes through a material.
- **Conclusion:** an end to something.
- **Consolation:** a thing or person that makes you feel better in hard times.
- **Conviction:** the action of finding somebody guilty of a crime.

The most appropriate synonym for **termination** is **conclusion**.

Question 93 :

Select the most appropriate meaning of the given idiom. Pipe dream

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. A dream or idea that keeps getting repeated
2. A dream or idea that is loudly proclaimed
3. A dream or idea that is unlikely to happen
4. A dream or idea that is nearly accomplished

Solution :

The correct answer is **Option 3** i.e **A dream or idea that is unlikely to happen**.

- The most appropriate meaning of the given idiom '**Pipe dream**' is '**A dream or idea that is unlikely to happen**'.
- **Pipe dream:** an unattainable or fanciful hope or scheme.

Question 94 :

Select the most appropriate option to fill in the blank. Advertisers often use rhyme and _____.

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. Alteration
2. Alliteration
3. Designation
4. Denunciation

Solution :

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

The meaning of the given options is-

- **Alteration:** the action or process of altering or being altered.
- **Alliteration:** the occurrence of the same letter or sound at the beginning of adjacent or closely connected words.
- **Designation:** the action of choosing someone to hold an office or post.
- **Denunciation:** public condemnation of someone or something.

Clearly, Advertisers often use rhyming words to make it catchy and easy to remember.

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. Water, a substance composed of the chemical elements hydrogen and oxygen (1)_____ in gaseous, liquid, and solid states. It is (2)_____ of the most plentiful and essential (3)_____ compounds. A tasteless and odourless liquid at room temperature, it has the important (4)_____ to dissolve many other substances. Indeed, the (5)_____ of water as a solvent is essential to living organisms.

Question 95 :

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

Difficulty : Moderate

Average Time : 78 Seconds

Options :

1. lasts
2. endures
3. survives



exists

Solution :

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

The meaning of the given options is-

- **exists:** to be real or in existence
- **lasts:** continue for a specified period of time
- **endures:** suffer (something painful or difficult) patiently.
- **survives:** continue to live or exist, especially in spite of danger or hardship
 - The paragraph has a positive and informative tone.
 - Water is real implies that it exists.

The correct sentence is-

Water, a substance composed of the chemical elements hydrogen and oxygen exists in gaseous, liquid, and solid states.

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. Water, a substance composed of the chemical elements hydrogen and oxygen (1)_____ in gaseous, liquid, and solid states. It is (2)_____ of the most plentiful and essential (3)_____ compounds. A tasteless and odourless liquid at room temperature, it has the important (4)_____ to dissolve many other substances. Indeed, the (5)_____ of water as a solvent is essential to living organisms.

Question 96 :

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

Difficulty : Moderate

Average Time : 88 Seconds

Options :

1. One
2. unique
3. single
4. lone

Solution :

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

The paragraph talks about water in an informative as well as positive tone.

- The particular sentence talks about water being an essential resource among others.
- One will be the most appropriate filler for the blank as the statement talks about one of the most important compounds.

Among other given options, one fits the sentence both contextually & grammatically.

The correct sentence is-

It is **one** of the most plentiful and essential of compounds.

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. Water, a substance composed of the chemical elements hydrogen and oxygen (1)_____ in gaseous, liquid, and solid states. It is (2)_____ of the most plentiful and essential (3)_____ compounds. A tasteless and odourless liquid at room temperature, it has the important (4)_____ to dissolve many other substances. Indeed, the (5)_____ of water as a solvent is essential to living organisms.

Question 97 :

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

Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. of
2. in
3. by
4. for

Solution :

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

- The paragraph has a positive and informative tone.
- The preposition 'of' is used to indicate that somebody or something belongs to a group, often used after uncountable nouns such as some, a few, and so on.
- In the given sentence it is referring to the chemical compounds.

The correct sentence will be-

It is one of the most plentiful and essential of compounds.

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. Water, a substance composed of the chemical elements hydrogen and oxygen (1)_____ in gaseous, liquid, and solid states. It is (2)_____ of the most plentiful and essential (3)_____ compounds. A tasteless and odourless liquid at room temperature, it has the important (4)_____ to dissolve many other substances. Indeed, the (5)_____ of water as a solvent is essential to living organisms.

Question 98 :

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

Difficulty : Moderate

Average Time : 77 Seconds

Options :

1. ability
2. competence
3. knack
4. proficiency

Solution :

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

The meaning of the given options are-

- **ability**: possession of the means or skill to do something.
- **competence**: the ability to do something successfully or efficiently.
- **knack**: an acquired or natural skill at doing something.
- **proficiency**: a high degree of skill; expertise.

The paragraph has a positive and informative tone.

The above given options are more or less the synonym of one another.

Clearly, the given statement talks about water's ability to dissolve other substances. With alternatives being synonyms of ability, it in itself will be the most appropriate option.

The correct sentence will be-

A tasteless and odourless liquid at room temperature, it has the important **ability** to dissolve many other substances.

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. Water, a substance composed of the chemical elements hydrogen and oxygen (1)_____ in gaseous, liquid, and solid states. It is (2)_____ of the most plentiful and essential (3)_____ compounds. A tasteless and odourless liquid at room temperature, it has the important (4)_____ to dissolve many other substances. Indeed, the (5)_____ of water as a solvent is essential to living organisms.

Question 99 :

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

Difficulty : Moderate

Average Time : 97 Seconds

Options :

1. versatility
2. validity
3. velocity
4. veracity

Solution :

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

The meaning of the given options is-

- **versatility**: an ability to adapt or be adapted to many different functions or activities.
- **validity**: the quality of being logically or factually sound; soundness or cogency.
- **velocity**: the speed of something in a given direction.
- **veracity**: conformity to facts; accuracy.

The paragraph has a positive and informative tone.

The given line talks about the quality or the ability of water which is essential for it to be solvent for living organisms.

The correct sentence is-

Indeed, the versatility of water as a solvent is essential to living organisms.

Question 100 :

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 : 74 Seconds

Options :

1. NSY
2. TYE
3. PUB
4. LQW

Solution :

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

Understanding

The logic used here is:

1st letter + 5 = 2nd letter

2nd letter + 6 = 3rd letter

Option 1: NSY

$N + 5 = S$

$S + 6 = Y$

Option 2: TYE

$T + 5 = Y$

$Y + 6 = E$

Option 3: PUB

$P + 5 = U$

$U + 7 = B$

Hence, **PUB** is the odd one out.

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

Ssc Cgl Tier I Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2021-08-17 in the Morning 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. 24 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. Simplification - 1
2. Average - 2
3. Percentage - 1
4. Data Interpretation - 4
5. Time And Work - 1
6. Time Speed And Distance - 1
7. Interest - 1
8. Ratios And Proportion - 1
9. Geometry - 1
10. Trigonometry - 3
11. Mensuration - 5
12. Algebra - 1
13. Quadratic Equation - 1
14. Profit And Loss - 2

Logical Reasoning

1. Coding Decoding - 2
2. Analogy - 5
3. Classification - 3
4. Blood Relations - 1
5. Syllogism - 1
6. Dictionary Based - 1



- Figure Based - 4
- 8. Series - 3
- 9. Mathematical Reasoning - 1
- 10. Cubes And Dice - 1
- 11. Pattern Completion - 2
- 12. Pattern Completion - 2
- 13. Seating Arrangement And Puzzle - 1

General Awareness

- 1. History - 2
- 2. Polity - 4
- 3. Economics - 1
- 4. Science - 4
- 5. Environment - 2
- 6. Geography - 1
- 7. GK Misc - 3
- 8. Current Affairs - 1
- 9. Law & Constitution - 1
- 10. NDA GK - 2
- 11. Art And Culture - 4



English Language

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

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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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.