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Ssc Cgl Tier I Previous Year Question Paper Overview

Here, you can solve all the questions asked in Ssc Cgl Tier I Previous Year Question Paper on 2022-04-12 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 :

If x + y + z = 11, xy + yz + zx = -6, and x3 + y3 + z3 = 1604, then the value of xyz is:

Difficulty : Moderate

Options :

- 1.5
- 2. 4
- 3. 1
- 4. 25

Solution :

The correct answer is **option 4** i.e. **25**.

x + y + z = 11(x + y + z)² = 121 [Squaring on both sides] x² + y² + z² + 2(xy + yz + zx) = 121 x² + y² + z² + 2(-6) = 121 x² + y² + z² = 121 + 12 x² + y² + z² = 133 ------ (1)

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Page No: 1

Average Time : 44 Seconds



 $x^{3}\hat{a} \in (\hat{a} \in$

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3xyz = 1604 - 11 × (139)

3xyz = 1604 - 1529 = 75

xyz = 75/3 = 25

The value of xyz is 25

Question 2 :

Select the option that can be used as a one-word substitute for the given group of words. Indifferent to pleasure and pain

Difficulty : Moderate

Options :

- 1. Lusty
- 2. Prudent
- 3. Cynic
- 4. Stoic

Solution :

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

One Word Substitution means using a specific word to replace a wordy phrase or sentence and making it shorter, concise, and clearer to understand.

Indifferent to pleasure and pain is known as stoic.

Acting with or showing care and thought for the future is known as prudent.

A cynic is a person who believes that people are only interested in themselves and are not sincere.

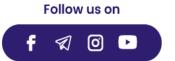
Lusty is healthy and strong; full of vigour.

Question 3 :

Select the option that can be used as a one-word substitute for the given group of words. Formally put an end to a system, practice, or institution

Difficulty : Moderate

Average Time : 56 Seconds



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Average Time : 89 Seconds





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Options:

- 1. Stop
- 2. Abolish
- 3. Destroy
- 4. Kill

Solution :

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

One Word Substitution means using a specific word to replace a wordy phrase or sentence and making it shorter, concise, and clearer to understand.

Formally put an end to a system, practice, or institution is known as abolishing.

Stop means to come to an end; cease to happen.

To end the existence of (something) by damaging or attacking it is known as destroying.

To put an end to or cause failure or defeat is known as kill.

Question 4 :

The following sentence has been split into four segments. Identify the segment that contains a grammatical error. My house / is more / spacious than / my sister.

Difficulty : Moderate

Average Time : 57 Seconds

Options:

- 1. is more
- 2. spacious than
- 3. My house
- 4. my sister

Solution :

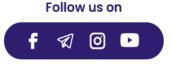
The correct answer is option 4 i.e. my sister.

Given sentence: My house / is more / spacious than / my sister.

The possessive apostrophes ('s) always come after a noun.

Correct sentence: My house / is more / spacious than / my sister's.

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Question 5 :

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. He was / late / for school / and punished.

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Difficulty : Moderate

Average Time : 47 Seconds

Options:

- 1. for school
- 2. and punished
- 3. late
- 4. He was

Solution :

The correct answer is option 2 i.e. and punished.

Given sentence: He was / late / for school / and punished.

"So" should be used instead of 'and' which means as a result of reaching school late, he was punished.

Correct sentence: He was / late / for school / so punished.

Question 6 :

Select the most appropriate synonym of the given word. Duo

Difficulty : Moderate

Options :

- 1. Debt
- 2. Loan
- 3. Pair
- 4. Bond

Solution :

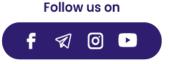
The correct answer is **option 3** i.e. **Pair.**

Synonym: Words that have the same or nearly the same meaning.

Given word: Duo

Meaning: a pair of people or things.

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Average Time : 44 Seconds





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The word that seems to be its synonym is 'Pair' as it means a set of two things used together or regarded as a unit.

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Meaning of other words:

Debt: a sum of money that is owed or due.

Loan: a thing that is borrowed.

Bond: a relationship between people or groups based on shared feelings, interests, or experiences.

Question 7 :

Select the most appropriate meaning of the given idiom. Foul play

Difficulty : Moderate

Options :

- 1. A bad smelling theatre or playground
- 2. Unfair or dishonest behaviour
- 3. Unpleasant weather for playing
- 4. A drama which is badly produced

Solution :

The correct answer is option 2 i.e. Unfair or dishonest behaviour.

Idioms: A group of words established by usage as having a meaning not deducible from those of the individual words.

"Foul play" means a criminal act that results in serious damage or injury, especially murder.

Example: The police suspected he had met with foul play.

Question 8 :

Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph. A. However, when areas in Leh began to experience water shortages, life didn't grind to a halt. B. Ladakh is a cold desert with a low average annual rainfall. C. Thus, glaciers have been the main source of water for the people. D. This was because Chewang Norphel, a retired civil engineer came up with the idea of artificial glaciers.

Difficulty : Moderate

1. BCDA

Options:

Average Time : 71 Seconds

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Average Time : 58 Seconds





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BCAD

- 3. DABC
- 4. CBDA

Solution :

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

The given question is an example of para jumbles.

Sentence B will be the introductory line as it introduces the topic of Ladakh.

Sentence C will be the next as it explains the source of water there.

Sentence A will be following sentence C.

Sentence D will be the last sentence as it concludes the para.

The correct sequence is:

B. Ladakh is a cold desert with a low average annual rainfall.

C. Thus, glaciers have been the main source of water for the people.

A. However, when areas in Leh began to experience water shortages, life didn't grind to a halt.

D. This was because Chewang Norphel, a retired civil engineer came up with the idea of artificial glaciers.

Question 9 :

A is 25 years younger than B. The age of B would be double the age of C after 15 years. The current age of B is three times the current age of C. What is the current age of A?

Difficulty : Moderate

Options :

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

Solution :

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Average Time : 76 Seconds



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The correct answer isoption 4 i.e. 20 years.

According to the question;

A = B - 25

(B + 15) = 2(C + 15)

So solving these three equations;

3C + 15 = 2C + 30

C = 15 years

B = 45 years

A = 45 - 25 = 20 years

So, the current age of A = 20 years

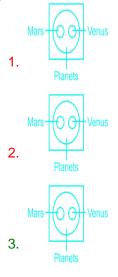
Question 10 :

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

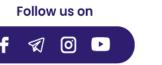
Difficulty : Moderate

Average Time : 45 Seconds

Options:



4.



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Solution :



The correct answer is option 3

The logic used here is:

The innermost figure moves to the outer side in the next figure.

The series of figures:



Question 11:

On simple interest, a certain sum becomes Rs.59,200 in 6 years and Rs.72,000 in 10 years. If the rate of interest had been 2% more, then in how many years would the sum have become Rs.76000?

Average Time: 71 Seconds

Difficulty : Moderate

Options :

- 1.9
- 2.8
- 3.7
- 4.10

Solution :

The correct answer is option 1 i.e. 9

On Simple Interest, the sum becomes 59200 in 6 years and 72000 in 10 years

Thus, the interest in 4 years = 72000 - 59200 = 12800

And, the interest for 1 year = 12800/4 = 3200

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And, the interest in 6 years = $(12800/4) \times 6 = 19200$

The Principal will be 59200 - 19200 = 40000

If the interest rate had been 2% more = $40000 \times (2/100) = 800$

Thus, interest for 1 year would have been 800 more

Thus, interest in 1 year would be 4000

It would take (76000 - 40000)/4000 years to have an amount of 76000 on the principal of 40000

(76000 - 40000)/4000 = 36000/4000 = 9 years

Question 12 :

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

Difficulty : Moderate

Options :

- 1. VHCBNVN
- 2. HVCNBVN
- 3. VCBHNVN
- 4. VHBNCHV

Solution :

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

The sequence is - K, P, Q, R, D, A, P

Given sequence: C $_$ B N $_$ $_$ V $_$ H C $_$ B $_$ H

Option 1: VHCBNVN

 $\mathsf{C} \ \mathbf{V} \ \mathsf{B} \ \mathsf{N} \ \mathbf{H} \ \mathbf{/} \ \mathbf{C} \ \forall \ \mathbf{B} \ \mathbf{N} \ \mathsf{H} \ / \\ \mathsf{C} \ \mathbf{V} \ \mathsf{B} \ \mathbf{N} \ \mathsf{H}$

Option 1 forms a particular pattern.

Hence, option 1 is the correct answer.

Question 13 :

Study the given pattern carefully and select the number from among the given options that can replace the question mark (?) in it. 11 15 9 14 16 ? 75 31 88



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Average Time : 59 Seconds



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Difficulty : Moderate

Average Time : 55 Seconds

Options :

- 1. 25
- 2. 18
- 3. 13
- 4. 22

Solution :

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

The logic used here is:

Column 1: (14 + 11) × (14 - 11) = 25 × 3 = 75

Column 2: (16 + 15) × (16 - 15) = 31 × 1 = 31

Column 3: $(9 + a) \times (a - 9) = 88$

a = 13

Question 14 :

If the signs '+' and '+' are interchanged, then which of the following equations can be correctly balanced?

Difficulty : Moderate

Options :

- 1. $22 + 11 \times 8 \div 3 = 19$
- 2. $24 12 \div 6 + 3 = 20$
- 3. $12 + 4 8 \div 3 = 11$
- 4. $16 + 4 \times 8 \div 3 = 45$

Solution :

The correct answer is **option 1** i.e. $22 + 11 \times 8 \div 3 = 19$.

Given conditions: signs '+' and '÷' are interchanged

Option 1: 22 + 11 × 8 ÷ 3 = 19

After interchanging the expression becomes:

Average Time : 43 Seconds



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= 22 ÷ 11 × 8 + 3 = 19

= 19 is equal to 19.

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

Question 15 :

Three different positions of the same dice are shown, the six faces of which are numbered from 1 to 6. Select the number that will be on the face opposite to the face having the number '5'.

Difficulty : Moderate	Average Time : 51 Seconds
Options : 1. 1	
2. 3	
3. 2	
4. 6	
Solution : The correct answer is option 1 i.e. 1.	
In the second and third dice, 1 and 3 are common. So, the rest of t	he faces are opposite to each other.

So, 6 is opposite to 4.

In the first and second dice, 1 is common. So, start rotating either in the clockwise or anticlockwise direction.

Clockwise direction:

Dice 1: 1 2 4

Dice 2: 1 3 6

So, 1 is opposite to 5.

Anticlockwise direction:

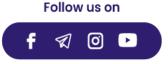
Dice 1: 1 4 2

Dice 2: 1 6 3

So, 1 is opposite to 5.

Hence, option 1 is the correct answer.

Question 16 :



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Select the letter cluster from among the given options that can replace the question mark (?) in the following series.HDMS, OVVI, VNEY, CFNO,?

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Difficulty : Moderate

Average Time : 58 Seconds

Options :

- 1. JXXF
- 2. JXWE
- 3. JYWF
- 4. KXWE

Solution :

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

Given series: HDMS, OVVI, VNEY, CFNO,?

The series follows this pattern:

HDMS, OVVI

- H + 7 = 0
- D 8 = V

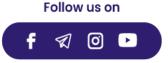
M + 9 = V

- S 10 = I
- Similarly;
- CFNO,?
- C + 7 = J
- F 8 = X
- N + 9 = W
- O 10 = E

So, the next term in the series is JXWE.

Question 17 :

In a code language, if PEN is written as 17717, then how will CAP be written in the same language?



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Difficulty : Moderate

Average Time : 54 Seconds

Average Time : 51 Seconds

Options :

- 1. 2319
- 2. 4319
- 3. 4219
- 4. 2320

Solution :

The correct answer is **option 2** i.e. **4319**.

The logic used here is:

PEN is written as 17717

P = 16 + 1 = 17

E = 5 + 2 = 7

N = 14 + 3 = 17

Similarly;

Code for the word CAP:

C = 3 + 1 = 4

A = 1 + 2 = 3

P = 16 + 3 = 19

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

Question 18 :

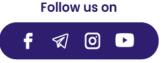
If A denotes 'addition', B denotes 'multiplication', C denotes 'subtraction', and D denotes 'division', then what will be the value of the following expression? 46 C (6 A 7) B 5 A 24 D 6 B (27 D (9 D 3))

Difficulty : Moderate

Options :

- 1. 65
- 2. 17





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39

4. 21

Solution :

The correct answer is option 2 i.e. 17.

Given equation: 46 C (6 A 7) B 5 A 24 D 6 B (27 D (9 D 3))

Given conditions: A +; B ×; C -; D ÷

After replacing the expression becomes:

 $= 46 - (6 + 7) \times 5 + 24 \div 6 \times (27 \div (9 \div 3))$

 $= 46 - (6 + 7) \times 5 + 24 \div 6 \times (27 \div (3))$

 $= 46 - (6 + 7) \times 5 + 24 \div 6 \times 9$

 $= 46 - 13 \times 5 + 24 \div 6 \times 9$

```
= 46 - 13 \times 5 + 4 \times 9
```

```
= 17
```

Hence, option 2 is the correct answer.

Question 19:

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

Average Time : 69 Seconds

Difficulty : Moderate

Options:

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

Solution :

The correct answer is option 1 i.e. Only conclusions I and II follow.



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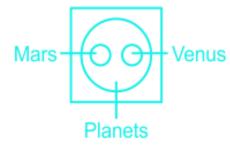
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The least possible Venn Diagram for the given statements is drawn below:

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Conclusions:

I. Some leaves are rotten True (As all rotten are fruits, and all fruits are leaves, so some leaves are rotten.)

II. Some mangoes are fruits True (As all rotten are fruits, and some mangoes are rotten, so, some mangoes are fruits.)

III. All leaves are either rotten or mangoes False (It is possible, but no definite conclusion can be drawn).

Hence, Only conclusions I and II follow.

Question 20 :

Select the correct option that indicates the arrangement of the given course of action in a logical and meaningful order. 1. Open email account 2. Compose email 3. Start computer 4. Enter email address 5. Write the content 6. Send the mail

Difficulty : Moderate

Average Time : 79 Seconds

Options :

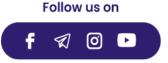
- 3, 2, 6, 1, 5, 4
 3, 1, 2, 4, 5, 6
 2, 5, 1, 3, 4, 6
- 4. 3, 1, 2, 6, 5, 4

Solution :

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

In this question, you need to arrange the words in a logical and meaningful order. So, the arrangement is how to send an email.

- 3. Start computer
- 1. Open email account
- 2. Compose email



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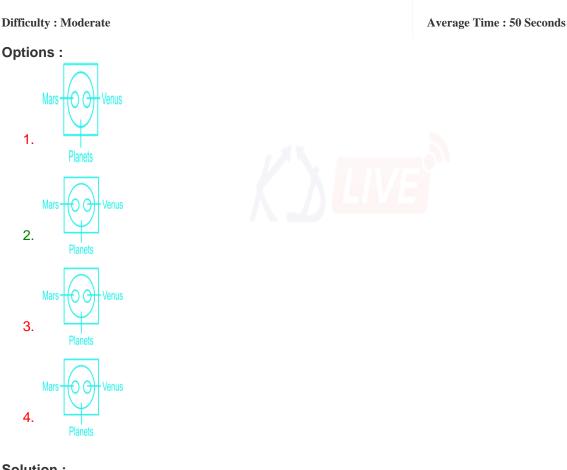
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- 4. Enter email address
- 5. Write the content
- 6. Send the mail

Question 21:

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?

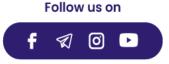


Solution :



The correct answer is option 2

After unfolding, the paper will appear as follows:



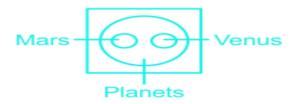
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Question 22:

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

Difficulty : Moderate

Options :

- 1. UWZBI
- 2. NPSWB
- 3. ACFJO
- 4. TVYCH

Solution :

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

The logic used here is:

1st letter + 2 = 2nd letter

2nd letter + 3 = 3rd letter

3rd letter + 4 = 4th letter

4th letter + 5 = 5th letter

Option 1: UWZBI

- U + 2 = W
- W + 3 = Z
- Z + 2 = B
- B + 7 = l
- 2. NPSWB: N + 2 = P, P + 3 = S, S + 4 = W, W + 5 = B
- 3. ACFJO: A + 2 = C, C + 3 = F, F + 4 = J, J + 5 = O
- 4. TVYCH: T + 2= V, V + 3 = Y, Y + 4 = C, C + 5 = H

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Average Time : 64 Seconds



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This does not follow the logic.

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

Question 23 :

'A # B' means 'A is the father of B'. A % B' means 'A is the mother of B'. 'A @ B' means 'A is the sister of B'. 'A & B' means 'A is the son of B'. If 'G # M # T % S @ H & R & W @ U', then which of the following statements is NOT correct?

Difficulty : Moderate

Average Time : 76 Seconds

Options :

- 1. G is the paternal grandfather of T.
- 2. W is the paternal grandmother of H.
- 3. M is the maternal grandfather of S.
- 4. R is the husband of T.

Solution :

The correct answer is option 2 i.e. W is the paternal grandmother of H.

In the diagram shown;

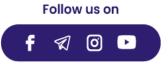
Square shows males, the circle shows females, vertical lines show generations, a single horizontal line shows brothers or sisters, and double lines show a couple.



From the above figure, W is the paternal grandmother of H.

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

Question 24 :



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In a code language, SOUP is written as TNVO. How will BOWL be written in that language?

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Difficulty : Moderate

Options :

- 1. CNXK
- 2. ANVK
- 3. CPVM
- 4. APVM

Solution :

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

The logic used here is:

SOUP is written as TNVO

- S + 1 = T
- O 1 = N
- U + 1 = V
- P 1 = 0

Similarly;

Code for the word BOWL:

B + 1 = C

O - 1 = N

W + 1 = X

L - 1 = K

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

Question 25 : Select the option that is NOT embedded in the given figure (X) (rotation is NOT allowed).

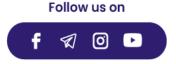
Difficulty : Moderate

Average Time : 51 Seconds

Options :







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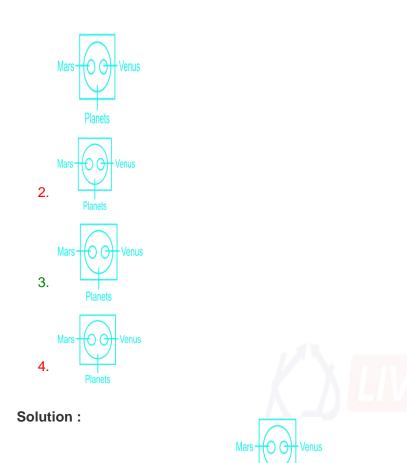






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The correct answer is **option 3** i.e.

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

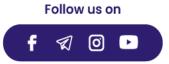
Plane



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



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



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The figure in option 3 is not embedded in the given figure, as shown below:



Question 26:

Select the number from among the given options that can replace the question mark (?) in the following series. 16, 35, ?, 217, 653, 1309

Difficulty : Moderate

Options :

- 1.72
- 2. 128
- 3.77
- 4. 107

Solution :

The correct answer is **option 4** i.e. **107**.

Given series: 16, 35, ?, 217, 653, 1309

The series follows this pattern:

 $16 \times 2 + 3 = 32 + 3 = 35$

 $35 \times 3 + 2 = 105 + 2 = 107$

 $107 \times 2 + 3 = 214 + 3 = 217$

 $217 \times 3 + 2 = 651 + 2 = 653$

653 × 2 + 3 = 1306 + 3 = 1309

So, the missing term in the series is 107.

Question 27:

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Average Time : 94 Seconds

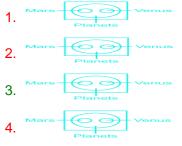


FREE PDF

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

Difficulty : Moderate





Solution :

The correct answer is **option 3.**

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 1** is the correct answer.

Question 28 :

Select the option that is related to the third term in the same way as the second term is related to the first term. FRONTIER: GSNOUHDS:: CLOSING:?

Difficulty : Moderate

Options :

- 1. DMNRHLH
- 2. DMNTHOH
- 3. DKNTJOH
- 4. BMPTHOH

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Average Time : 72 Seconds

Average Time : 43 Seconds



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Solution :

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

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The logic used here is:

FRONTIER: GSNOUHDS

F +	1	=	G
-----	---	---	---

- R + 1 = S
- O 1 = N
- N + 1 = O
- T + 1 = U
- I 1 = H
- E 1 = D
- R + 1 = S
- Similarly,
- CLOSING:?
- C + 1 = D
- L + 1 = M
- O 1 = N
- S + 1 = T
- I 1 = H
- N + 1 = O
- G + 1 = H

Hence, option 2 is the correct answer.

Question 29 :

Srinija walked 9 km towards the west from her home, then turned towards the south and walked 11 km. Then she walked 13 km towards the east and finally walked 4 km towards the west. How far is Srinija from her initial position?

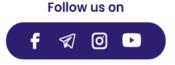
Difficulty : Moderate

Options :

K) LIVE

Page No: 23

Average Time : 64 Seconds



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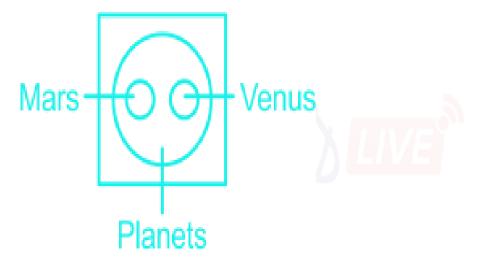


- 13 km
- 2. 10 km
- 3. 11 km
- 4. 15 km

Solution :

The correct answer is option 3 i.e. 11 km.

Using the above information we can draw the following diagram:



From the figure, Srinija is 11km from her initial position.

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

Question 30 :

Select the option that is related to the third number in the same way as the second number is related to the first number. 52 : 91 :: 72 : ?

Difficulty : Moderate

Options :

- 1. 138
- 2. 109
- 3. 98
- 4. 126

Average Time : 49 Seconds

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Solution :

The correct answer is option 4 i.e. 126.

The logic used here is:

52 : 91

 $(52 \times 2) - (52 \div 4) = 104 - 13 = 91$

Similarly,

72 : ?

 $(72 \times 2) - (72 \div 4) = 144 - 18 = 126$

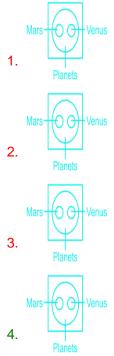
Hence, **option 4** is the correct answer.

Question 31 :

Select the Venn diagram that best illustrates the relationship between the following classes. Planets, Mars, Venus

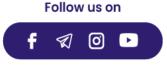
Difficulty : Moderate

Options:



Solution :

Average Time : 42 Seconds



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The correct answer is option 4

The possible Venn diagram is:



All mars and venus are planets.

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

Question 32:

Select the number from among the given options that can replace the question mark (?) in the following series. 62, 74, 80, 86, 95, ?, 158

Average Time : 68 Seconds

Difficulty : Moderate

Options :

- 1. 113
- 2. 100
- 3. 108
- 4. 122

Solution :

The correct answer is option 1 i.e. 113.

Given series: 62, 74, 80, 86, 95, ?, 158

The series follows this pattern:

62 + 12 = 74

 $74 + (12 \times 0.5) = 74 + 6 = 80$

 $80 + (6 \times 1) = 80 + 6 = 86$

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 $86 + (6 \times 1.5) = 86 + 9 = 95$

 $95 + (9 \times 2) = 95 + 18 = 113$

 $113 + (18 \times 2.5) = 113 + 45 = 158$

So, the missing term in the series is **113.**

Question 33:

Eight north-facing restaurants named P, Q, R, S, T, U, V, and W are located in a straight line. S is second to the left of T. W is third to the left of P. T is between P and V. S is third to the left of V. W is to the immediate right of U. R is third to the right of P. Who is sitting fourth to the right of S?

Difficulty : Moderate	Average Time : 58 Seconds
Options : 1. V	
2. U	
3. R	
4. W	
Solution :	

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

According to the question, the arrangement is as follows:

U	W	Q	S	Ρ	т	V	R
1		1				<u> </u>	

From the above arrangement, R is sitting fourth to the right of S.

Hence, option 3 is the correct answer.

Question 34 :

In a certain code language, 'your attention please' is written as 'puw cuw zuw', 'kind attention' is written as 'muw zuw', and 'pLease pay attention' is written as 'puw zuw ruw'. How will 'pay' be written in that language?

Difficulty : Moderate

Average Time : 53 Seconds

Options:

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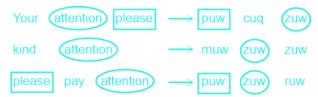


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- puw
- 2. ruw
- 3. zuw
- 4. cuw

Solution :

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



Code for the word attention = zuw

Code for the word please = puw

So, code for the word pay = ruw

Question 35:

Which of the following cities won the hosting rights of the 2030 Asian Games in December 2020?

Difficulty : Moderate

Options:

- 1. Doha
- 2. Jakarta
- 3. Shanghai
- 4. Seoul

Solution :

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

- Doha won the hosting rights of the 2030 Asian Games in December 2020.
- Asian Games is a continental multi-sport event held every four years among athletes from all over Asia.

Question 36:

Which of the following is NOT a part of a flower?

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Average Time : 43 Seconds

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Difficulty : Moderate

Average Time : 39 Seconds

Options :

- 1. Petiole
- 2. Pistil
- 3. Stamen
- 4. Sepal

Solution :

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

- Pistil is the female reproductive part of the flower.
- Stamen is the male reproductive part of a flower.
- Sepal is the outer parts of the flower (often green and leaf-like) that enclose a developing bud.
- From the given option, Petiole is not a part of the flower. The petiole is a stalk that connects the blade to the base of the leaf.

Question 37 :

Who among the following athletes was appointed as the Deputy Superintendent of Police by the Assam Government in February 2021?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

- 1. Ekta Bhyan
- 2. Deepika Kumari
- 3. Hima Das
- 4. Dutee Chand

Solution :

The correct answer is option 3 i.e. Hima Das.

- Hima Das was appointed as the Deputy Superintendent of Police by the Assam Government in February 2021.
- She is an Indian sprinter from the state of Assam and she holds the current Indian national record in 400 meters with a timing of 50.79 seconds.

Question 38 :

Which of the following Amendments of the Constitution of India declared that the Parliament has the power to abridge or



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take away any of the Fundamental Rights under Article 368 and such an Act, will NOT be a law under the meaning of Article 13?

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Difficulty : Moderate

Average Time : 53 Seconds

- **Options** : 1. Twentieth Amendment
 - 2. Twenty-eighth Amendment
 - 3. Twenty-fourth Amendment
 - 4. Twenty-third Amendment

Solution :

The correct answer is option 3 i.e. Twenty-fourth Amendment.

- The 24th Amendment was enacted by the Congress government headed by Indira Gandhi.
- It amends Article 13 of the Constitution to make it inapplicable to any amendment of the Constitution under Article 368.
- Article 13(4) and 368(3) were inserted through 24th Amendment.

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Question 39:

Which of the following crops is described as - 'It is a crop which is used both as food and fodder. It is a Kharif crop that requires temperature between 21°C to 27°C and grows well in old alluvial soil'?

Difficulty : Moderate

Options:

- 1. Sesamum
- 2. Maize
- 3. Bajra
- 4. Ragi

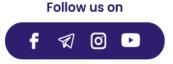
Solution :

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

- Maize is the world's leading crop and is widely cultivated as cereal grain that was domesticated in Central America and "It is a crop which is used both as food and fodder.
- It is a Kharif crop that requires temperature between 21°C to 27°C and grows well in old alluvial soil".

Question 40:

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Average Time : 53 Seconds



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Who among the following presidents of India gave assent to the 100th Amendment of the Constitution of India?

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Difficulty : Moderate

Options :

- 1. Ram Nath Kovind
- 2. Pratibha Devisingh Patil
- 3. APJ Abdul Kalam
- 4. Pranab Mukherjee

Solution :

The correct answer is option 4 i.e. Pranab Mukherjee.

- Pranab Mukherjee, president of India gave assent to the 100th Amendment of the Constitution of India.
- The 100th Amendment Act of 2015 gave effect to India acquiring certain territories and transferring other territories to Bangladesh.

Question 41 :

During the rule of which of the following dynasties did Timur or Tamerlane invade India in 1398 AD?

Difficulty : Moderate

Average Time : 46 Seconds

Average Time : 49 Seconds

Options :

- 1. The Khilji dynasty
- 2. The Tughlaq dynasty
- 3. The Slave dynasty
- 4. The Sayyad dynasty

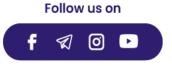
Solution :

The correct answer is option 2 i.e. The Tughlaq dynasty.

- In 1398, Timur invaded northern India, attacking the Delhi Sultanate ruled by Sultan Nasir-ud-Din Mahmud Shah Tughluq of the Tughlaq dynasty.
- Ghiyas-ud-din Tughluq was the founder of the Tughluq dynasty.

Question 42 :

As per the Union Budget of 2021-22, how many textile parks are to be set up in 3 years?



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Difficulty : Moderate

Average Time : 44 Seconds

Options :

- 1. Eight
- 2. Seven
- 3. Five
- 4. Six

Solution :

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

Finance Minister Nirmala Sitharaman has announced that seven textile parks will be set up across the country over three years. This will create a world-class infrastructure with plug-and-play facilities to enable create global champions in export.

Question 43 :

Approximately how much percentage (nearest to integer) of total water on the surface of earth is accounted for by the oceans?

Difficulty : Moderate

Options :

- 1.97
- 2. 94
- 3. 92
- 4. 96

Solution :

The correct answer is **option 1** i.e. **97.**

Approx 70% of the Earth's surface is covered with water and Approximately **97%** of the total water on the surface of Earth is accounted for by the oceans. The Pacific Ocean is the largest and deepest of the world's ocean basins.

Question 44 :

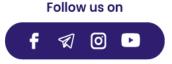
The foul smell from a body especially during a sultry summer is due to the action of _____on sweat.

Difficulty : Moderate

Average Time : 44 Seconds

Options :

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Average Time : 43 Seconds





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Virus

- 2. Bacteria
- 3. Melanin
- 4. Moisture

Solution :

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

The foul smell from a body especially during a sultry summer is due to the action of bacteria on sweat. Sweat is a clear, salty liquid produced by glands in your skin.

Question 45 :

Who among the following was a ruler of the Rashtrakuta dynasty?

Difficulty : Moderate

Options :

- 1. Dhruva
- 2. Kanishka
- 3. Samudragupta
- 4. Ashoka

Solution :

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

- Dhruva (ruled 780–793 CE) was one of the most notable rulers of the Rashtrakuta Empire. He ascended the throne after replacing his elder brother Govinda II.
- Kanishka was an emperor of the Kushan dynasty.
- Samudragupta was an emperor of the Gupta Empire.
- Ashoka was the great emperor of the Mauryan dynasty.

Question 46 :

The Government of National Capital Territory of Delhi (Amendment) Bill, 2021, which was passed in March 2021 amended the Government of National Capital Territory of Delhi Act, _____.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

f 🖈 🖸 🕨

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Average Time : 40 Seconds





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- 1998
- 2. 1991
- 3. 1996
- 4. 1994

Solution :

The correct answer is option 2 i.e. 1991.

The Government of National Capital Territory of Delhi (Amendment) Bill, 2021 was introduced in Lok Sabha on March 15, 2021. The Bill amends the Government of National Capital Territory of Delhi Act, 1991. The Act provides a framework for the functioning of the Legislative Assembly and the government of the National Capital Territory (NCT) of Delhi. The Bill amends certain powers and responsibilities of the Legislative Assembly and the Lieutenant Governor.

Question 47:

As a part of Mission Sagar-IV, Indian Naval Ship Jalashwa arrived at Port Anjouan, Comoros on 14 March 2021 to deliver 1,000 metric tonnes of:

Difficulty : Moderate

Average Time : 50 Seconds

Options:

- 1. Tea
- 2. Wheat
- 3. Sugar
- 4. Rice

Solution :

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

As a part of Mission Sagar-IV, Indian Naval Ship Jalashwa arrived at Port Anjouan, Comoros on 14 March 2021 to deliver 1,000 metric tonnes of rice. An official ceremony for handing over the food aid from the Government of India to the Government of Comoros was held on 15 March 2021.

Question 48:

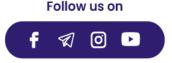
The value of the Gross Domestic Product (GDP) of India is published by PIB in

Difficulty : Moderate

Average Time : 44 Seconds

Options:

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US Dollar

- 2. Yen
- 3. Yuan
- 4. Indian Rupee

Solution :

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

- The value of the Gross Domestic Product (GDP) of India is published by PIB in Indian Rupee.
- Dollar is the currency of the US.
- Yen is the currency of Japan
- · Yuan is the currency of China.

Question 49:

Which of the following diseases CANNOT be prevented by vaccination?

Difficulty : Moderate

Options :

- 1. Rabies
- 2. Typhoid
- 3. Beri beri
- 4. Measles

Solution :

The correct answer is option 3 i.e. Beri beri.

- Beriberi is a disease in which the body does not have enough thiamine. Vitamin B1 deficiency causes Beriberi's disease.
- Rabies and Measles are a disease caused by a virus.
- Typhoid disease is caused by a bacterial infection.
- From the given option, all the diseases can be prevented by vaccination except Beriberi.

Question 50:

Who among the following first argued that in the face of high deficits, people save more?

Difficulty : Moderate

Average Time : 50 Seconds

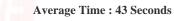
Options:

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Amartya Sen

- 2. Adam Smith
- 3. Esther Duflo
- 4. David Ricardo

Solution :

The correct answer is option 4 i.e. David Ricardo.

David Ricardo among the following first argued that in the face of high deficits, people save more. He was a British political economist. He was best known for his theory on wages and profit, the labor theory of value, the theory of comparative advantage, and the theory of rents.

Question 51 :

Who among the following was elected as the President of the Asian Cricket Council (ACC) in January 2021?

Difficulty : Moderate

Options :

- 1. Sourav Ganguly
- 2. Jay Shah
- 3. Anurag Thakur
- 4. Sachin Tendulkar

Solution :

The correct answer is option 2 i.e. Jay Shah.

- Jay Shah was elected as the President of the Asian Cricket Council (ACC) in January 2021.
- He is also the Secretary of BCCI.
- The Asian Cricket Council is a cricket organisation that was established in 1983, to promote and develop the sport of cricket in Asia.

Question 52 :

The Nobel Prize in Literature 2020 was awarded to _____

Difficulty : Moderate

Average Time : 45 Seconds

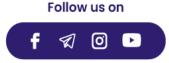
Average Time : 47 Seconds

Options :

1. Olga Tokarczuk

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Louise Gluck

- 3. Kazuo Ishiguro
- 4. Peter Handke

Solution :

The correct answer is option 2 i.e. Louise Gluck.

- The Nobel Prizes are given in the field of physics, chemistry, physiology or medicine, and literature and it is awarded in Stockholm, Sweden.
- The Nobel Prize in Literature 2020 was awarded to poet Louise Glück, who has written both poetry and essays about poetry.

Question 53 :

Which law of Newton provides a quantitative definition of force?

Difficulty : Moderate

Options :

- 1. Second law of motion
- 2. Universal law of gravitation
- 3. First law of motion
- 4. Third law of motion

Solution :

The correct answer is **option 1** i.e. **Second law of motion.**

Newton's second law of motion provides a quantitative definition of force. It states that the time rate of change of the momentum of a body is equal in both magnitude and direction to the force imposed on it. The momentum of a body is equal to the product of its mass and its velocity.

Newton's second law of motion = F = ma

Question 54 :

Me-Dum-Me-Phi is an ancestor-worship festival celebrated in the state of _____.

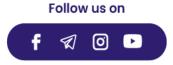
Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Goa

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Average Time : 45 Seconds





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Himachal Pradesh

- 3. Assam
- 4. Madhya Pradesh

Solution :

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

Me-dam-me-phi is a state holiday in Assam. It is the most important Ancestor worship communal festival in the Ahom religion celebrated on 31 January every year in memory of the departed.

Question 55:

Which of the following Harappan sites is in Haryana?

Difficulty : Moderate

Options :

- 1. Rakhigarhi
- 2. Dholavira
- 3. Lothal
- 4. Kalibangan

Solution :

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

- **Dholavira** is an archaeological site in Kutch District In Gujrat.
- Lothal is located between the Bhogavo and Sabarmati rivers near the Gulf of Khambhat in Gujarat.
- Kalibangan is the ancient site of the Indus Valley civilization and it is situated in Rajasthan.
- Rakhigarhi is a village and an archaeological site belonging to the Indus Valley civilization in Hisar District (Haryana).

Question 56 :

The Deomali is the highest mountain peak of _

Difficulty : Moderate

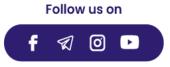
Options:

- 1. West Bengal
- 2. Odisha

Average Time : 39 Seconds

Average Time : 51 Seconds





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Bihar

4. Assam

Solution :

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

Deomali is a mountain peak located in the Chandragiri-Pottangi range. It is in the Koraput district of Odisha, near Koraput town. It is a mountain peak in the Chandragiri-Pottangi subrange of the Eastern Ghats.

Question 57:

Which of the following is a UNESCO recognised dance form?

Difficulty : Moderate

Options:

- 1. Kalbelia
- 2. Bhangra
- 3. Giddha
- 4. Dalkhai

Solution :

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

From the given option, Kalbelia is a UNESCO-recognised dance form. Kalbelia dance is a folk dance integral to the Kalbelia culture in Rajasthan. This dance is also known as the Sapera dance.

Question 58 :

Ozone is an allotrope of _____

Difficulty : Moderate

Options:

- 1. Oxygen
- 2. Carbon dioxide

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- 3. Nitrogen
- 4. Hydrogen

Solution :

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Average Time : 38 Seconds

Average Time : 40 Seconds



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The correct answer isoption 1 i.e. Oxygen.

- Ozone is a triatomic allotrope of oxygen.
- Ozone is a molecule made up of three oxygen atoms and it is represented by O₃.

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• It is more soluble than oxygen in the water.

Question 59 :

Which of the following environmental events is observed by switching off all lights at homes, business establishments, landmarks, and so on for an hour?

Difficulty : Moderate

Options:

- 1. Earth Charter
- 2. World Environment Day
- 3. Earth Hour
- 4. Earth Day

Solution :

The correct answer is option 3 i.e. Earth Hour.

- Earth Hour is observed by switching off all lights at homes, business establishments, landmarks, and so on for an hour on the last Saturday of March.
- The World Wide Fund for Nature is in charge of organising the event.
- This day is observed annually as a symbol of dedication to the environment.
- On this day, people turn off non-essential electric lights for one hour between 8:30 and 9:30 p.m.
- It began in 2007 as a lights-out event in Sydney, Australia.

Question 60:

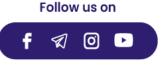
Two common tangents AC and BD touch two equal circles each of radius 7 cm, at points A, C, B, and D, respectively, as shown in the figure. If the length of BD is 48 cm, what is the length of AC?

Difficulty : Moderate

Average Time : 64 Seconds

Options:

- 1. 50 cm
- 2. 40 cm
- 3. 48 cm



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Average Time : 45 Seconds





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30 cm

Solution :

The correct answer is option 1 i.e. 50 cm.

The radius of each circle = 7 cm

BD is a transverse tangent on both circles

AC is a direct common tangent to both circles

Let x be the distance between the centers of the two circles

The length of direct common tangents = { (Distance between the centers of the two circles)² - (Difference between the radius of two circles)² }^{1/2}

The length of direct transverse tangents = { (Distance between the centers of the two circles)² - (Sum of the radius of two circles)² }^{1/2}

Here, BD = 48, The sum of the radius of the two circles = 14

Thus, BD = {
$$(x)^2 - (14)^2$$
 }^{1/2}
BD² = x² - 196 48² + 196 = x²
x² = 2304 + 196 = 2500
x = 50

The length of direct common tangents = { $(x)^2 - (7 - 7)^2$ }^{1/2}

AC =
$$(50^2 - 0)^{1/2}$$

AC = $(50^2)^{1/2} = 50$ cm

Question 61 :

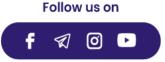
The bisector of B in ABC meets AC at D. If AB = 12 cm, BC = 18 cm and AC = 15 cm, then the length of AD(in cm) is:

Difficulty : Moderate

Average Time : 93 Seconds

Options :

- 1. 9
- 2. 6
- 3. 12



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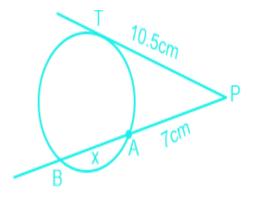
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5

Solution :

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



Given: AB = 12 cm, AC = 15 cm, BC = 18 cm

We know, The angle bisector of an angle of a triangle divides the opposite side into two parts that are proportional to the other two sides of the triangle.

i.e. AB/BC = AD/CD

12/18 = AD/CD AD/CD = 2/3

 $CD = (3/2) \times AD$

We have, AD + CD = 15

 $AD + (3/2) \times AD = 15$

 $AD \times (5/2) = 15$

AD = 6 cm

Question 62:

If $\cot B = 12/5$, what is the value of sec B?

Difficulty : Moderate

Options :

- 1. 13/12
- 2. 5/12
- 3. 13/5

Average Time : 58 Seconds



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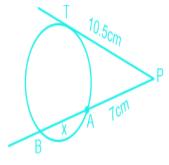


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12/13

Solution :

The correct answer is option 1 i.e. 13/12.



We know, cot B = Base/Perpendicular

Here, Base = 12 cm and Perpendicular = 5 cm

Also, Hypotenuse = $\{Base^2 + Perpendicular^2\}^{1/2}$

Hypotenuse = $\{12^2 + 5^2\}^{1/2} = (144 + 25)^{1/2}$

Hypotenuse = $(169)^{1/2}$ = 13 cm

We have to find sec B which is Hypotenuse/Base

So, sec B = 13/12

Question 63:

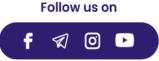
The following histogram shows the marks scored by 40 students in a test of 30 marks. A student has to score a minimum of 10 marks to pass the test. How many students have scored less than two-thirds of the total marks?

Difficulty : Moderate

Options:

- 1.25
- 2.32
- 3. 17
- 4.35

Solution : The correct answer is option 1 i.e. 25. Average Time : 60 Seconds



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- Total Marks of the test = 30
- Two-third of the marks = $(2/3) \times 30 = 20$

Marks less than 20 are sored by 2 + 8 + 7 + 8 = 25 students

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Question 64 :

Find the value of 703 + 203 - 903.

Difficulty : Moderate

Options :

- 1. 0
- 2. -300000
- 3. 378000
- 4. -378000

Solution :

The correct answer is option 4 i.e. -378000.

Explanation:

From the given question,

 $70^3 = 343000$

 $20^3 = 8000$

 $90^3 = 729000$

Thus, $70^3 + 20^3 - 90^3 = 343000 + 8000 - 729000 = -378000$

Hence the value of $70^3 + 20^3 - 90^3$ is - 378000

Question 65 :

The average of 9 consecutive numbers is 20. The smallest of these numbers is:

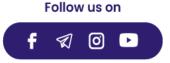
Difficulty : Moderate

Average Time : 47 Seconds

1. 10

Options:

2. 20



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Average Time : 34 Seconds





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16

4. 12

Solution :

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

Explanation:

Let the nine numbers be x, x + 1, x + 2, x + 3, x + 4, x + 5, x + 6, x + 7 and x + 8

Average of these 9 consecutive numbers = 20

The sum of these numbers = $20 \times 9 = 180$

So, x + x + 1 + x + 2 + x + 3 + x + 4 + x + 5 + x + 6 + x + 7 + x + 8 = 180

9x + 36 = 180

9x = 144

x = 16

Thus, the smallest of these numbers is 16.

Question 66 :

If $3\sec 2 + \tan - 7 = 0$, $0^\circ - 90^\circ$, then what is the value of $((2\sin \hat{l}_1 + 3\cos \hat{l}_2) \text{ over } (\csc \hat{l}_1 + \sec \hat{l}_2))$?

Difficulty : Moderate

Options:

- 1. 5/4
- 2. 5/2
- 3. 10
- 4. 42

Solution :

The correct answer is option 1 i.e. 5/4.

Given, $3\sec^2 + \tan - 7 = 0$

Put = 45°

 $3 \sec^2 45^\circ + \tan 45^\circ - 7 = 3 \times 2 + 1 - 7 = 7 - 7 = 0$

Average Time : 53 Seconds



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Thus, $= 45^{\circ}$ satisfies our given equation.

Put =
$$45^{\circ}$$
 in $((2\sin\hat{l} + 3\cos\hat{l}))$ over $(\csc\hat{l} + \sec\hat{l})$

 $((2\sin\hat{l} + 3\cos\hat{l}))$ ($(\cose^2\hat{l} + \sec\hat{l})$) = $(2\sin45^\circ + 3\cos45^\circ)/(\csc45^\circ + \sec45^\circ)$

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$$\{2 \times (1/2)^{1/2} + 3 \times (1/2)^{1/2}\}/\{(2)^{1/2} + (2)^{1/2}\}\$$
$$\{5/(2)^{1/2}\}/\{2 \times (2)^{1/2}\} = 5/\{2 \times (2)^{1/2} \times (2)^{1/2}\}\$$

5/4

Question 67:

Which is the smallest multiple of 7, which leaves 5 as the remainder in each case, when divided by 8,9,12, and 15?

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Difficulty : Moderate

Options :

- 1. 2525
- 2. 1085
- 3. 365
- 4. 725

Solution :

The correct answer is option 2 i.e. 1085.

LCM of 8, 9, 12, and 15 = 1080

Let, the required number is of form 1080k + 5

When divided by 7, 1080k + 5 leaves a remainder of 5

(1080k + 5)/7 = 1078k/7 + (2k + 5)/7

When k = 1, (2k + 5)/7 is divisible by 7

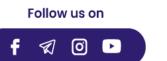
Thus, the smallest such number is $(1080 \times 1 + 5) = 1085$

Question 68:

A vertical pole and a vertical tower are on the same level ground in such a way that, from the top of the pole, the angle of elevation of the top of the tower is 60° and the angle of depression of the bottom of the tower is 30°. If the height of the pole is 24m, then find the height of the tower (in m).

Difficulty : Moderate

Average Time : 56 Seconds



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Average Time : 64 Seconds



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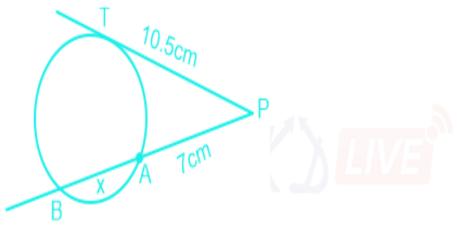


Options :

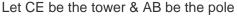
- 1. 243 (3 +1)
- 2. 24(3 + 1)
- 3. 72
- 4.96

Solution :

The correct answer is option 4 i.e. 96.



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As given in the question AB = 24 m

Therefore, In â-3ADC, tan 30° = CD/AD

$$AD = CD \times (3)^{1/2}$$

And CD = AB = 24. Therefore, $AD = 24 \times (3)^{1/2}$

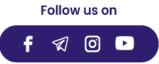
Now, in â-3ADE, tan 60° = ED/AD

$$(3)^{1/2} = ED/(24 \times (3)^{1/2})$$

Height of tower = $CE = 24 \times (3)^{1/2} \times (3)^{1/2} = 96 \text{ m}$

Question 69 :

The following bar graph shows the total number of youth (in lakhs) and the number of employeed youth (in lakhs) in 5 state A,B,C,D and E. What is the ratio of the number of youth in states A, C, and E taken together to the number of employed youth in states B, C, and D taken together?



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Difficulty : Moderate

Average Time : 73 Seconds

Options :

- 1. 57 : 49
- 2.8:7
- 3. 65 : 59
- 4. 65:49

Solution :

The correct answer is **option 4** i.e. **65 : 49.**

Total youth population of A, C, and E = 12 + 11.5 + 9 = 32.5 lakhs

Employed youth of B, C, and D = 7 + 10 + 7.5 = 24.5 lakhs

Required Ratio = 32.5/24.5 = 65 : 49

Question 70 :

Find the value of the following expression: $(5 - 35\hat{A} + 5\hat{A} + 5\hat$

Difficulty : Moderate

Average Time : 35 Seconds

Options :

- 1. 9.5
- 2. 13.5
- 3. 2.5
- 4. 11.5

Solution :

The correct answer is option 1 i.e. -9.5

Explanation:

From the given question,

\(5 - 35 ÷ 5 × 15 + 5\over 12 - 2\)

\((5 - 7 × 15 + 5)\over10\)

 $({(10\hat{A} - 105)} = {-95}) = -9.5$



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Hence, the value of\(5 - 35 ÷ 5Â Ã- 15 + 5\over 12 - 2\) is - 9.5

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Question 71 :

The price of petrol shot up by 5% before the hike, the price was Rs.82 per litre. A man travels 3045 km every month and his car gives a mileage of 15 km per litre. What is the increase in the monthly expenditure (to the nearest Rs) on the man's travel due to the hike in the petrol prices?

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Difficulty : Moderate

Options :

- 1. 944
- 2. 859
- 3. 758
- 4. 832

Solution :

The correct answer is option 4 i.e. 832.

The price of petrol before the hike = Rs. 82/litre

Hike in petrol price = 5%

Total distance covered by the man every month = 3045 km

The mileage of his car is 15 km/litre

Total petrol required every month = 3045/15 = 203 litres

The petrol price hike = $82 \times (5/100) = \text{Rs. } 4.1$

Increase in monthly expenditure = 203 × 4.1 = Rs. 832.30 Rs. 832

The increase in the monthly expenditure is Rs.832

Question 72 :

The difference between the two perpendicular sides of a right-angled triangle is 17 cm and is 84 cm2. What is the perimeter (in cm) of the triangle?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 36

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Average Time : 57 Seconds

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49

- 3.56
- 4.40

Solution :

The correct answer is option 3 i.e. 56

Let one side of the triangle = x cm

Another perpendicular side = x - 17 (the difference between the two perpendicular sides of a right-angles triangle is 17 cm)

Area of right angled triangle = $1/2 \times x \times (17 - x) = 84$

$$x^2 - 17x - 168 = 0$$

 $x^2 - 24x + 7x - 168 = 0$

x(x - 24) + 7(x - 24) = 0

(x + 7)(x - 24) = 0

x = 24 (side cannot be negative)

Thus, $H^2 = (24)^2 + (7)^2 = 625 = (25)^2$

3 sides of triangle are x = 24 cm, x - 17 = 7 cm and H = 25 cm

Therefore, Perimeter of triangle = 24 + 7 + 25 = 56 cm

Question 73:

The ratio of the speeds of two trains is 2 : 7. If the first train runs 250 km in 5 hours, then the sum of the speeds (in km/h) of both the trains is:

Difficulty : Moderate

Options :

- 1. 150
- 2. 225
- 3. 175
- 4. 250

Solution :

Average Time : 66 Seconds



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The correct answer is option 2 i.e. 225

Given:

Ratio of speed = 2:7

First train covers 250 km in 5 hours

Concept Used:

Speed Distance/Time

Explanation:

Let, the speed of the first train = 2x

The speed of the second train = 7x

So, 2x = 250/5 = 50

x = 50/2 = 25

Therefore, The speed of the first train = $2 \times 25 = 50$ km/h

Also, the speed of the second train 7 x 25 = 175 km/h

The sum of both speed 50 + 175 = 225 km/h

Hence the sum of the speeds (in km/h) of both trains is 225 km/h

Question 74:

A trader sells an article for Rs. 425 and loses 15%. At what price (in Rs) should he sell the article to earn 5% profit?

Difficulty : Moderate

Options :

- 1. 525
- 2. 510
- 3. 505
- 4. 445
- Solution : The correct answer is option 1 i.e. 525.

The initial selling price = Rs. 425

Average Time : 61 Seconds



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Loss = 15%

Required profit = 5%

C.P. = 100/(100 Loss %) x S.P

S.P = (100+ Profit%)/100 x C.P

where, C.P Cost price; S.P. Selling price

The cost price of the article = $100/(100 - 15) \times 425$

(100/85) × 425 = Rs.500

The required selling price $(100+5)/100 \times 500$

(105/100) x 500 = Rs.525

The trader should sell the article at Rs. 525

Question 75 :

A tangent is drawn from a point P to a circle, which meets the circle at T such that PT = 10.5 cm. A secant PAB intersects the circle in points A and B. If PA = 7 cm, what is the length (in cm) of the chord AB?

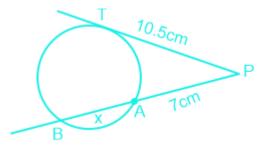
Difficulty : Moderate

Options:

- 1. 7.75
- 2.8.5
- 3. 8.75
- 4. 8.45

Solution :

The correct answer is option 3 i.e. 8.75.



Let, AB = x cm

Average Time : 59 Seconds



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By tangent secant theroem, $PT^2 = PA \times PB$

 $(10.5)^2 = 7 \times PB$

 $110.25 = 7 \times PB$

PB = 110.25/7 = 15.75 cm

Here, AB = PB - PA

x = 15.75 - 7 = 8.75 cm

The length of the chord AB is 8.75 cm

Question 76 :

The monthly expenditure of a family on different heads is shown in the following pie chart. What is the percentage of family earnings spent on rent?

Difficulty : Moderate

Options :

- 1. $15 \times (3/4)$
- 2.15
- 3. 16 × (2/3)
- 4. 16 × (1/3)

Solution :

The correct answer is **option 3** i.e. $16 \times (2/3)$.

Total angle for the spent on rent = 60°

The total angle of a circle around the center = 360°

The percentage of spending on rent = $(60/360) \times 100$

 $100/6 \% = 16 \times (2/3)\%$

Thus, The percentage of family earnings spent on rent is $16 \times (2/3)$ %

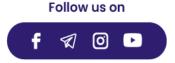
Question 77: What is the remainder when the product of 335, 608 and 853 is divided by 13?

Difficulty : Moderate

Average Time : 45 Seconds

Options:

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Average Time : 53 Seconds





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- 11
- 2.6
- 3. 12
- 4.7

Solution :

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

There are 335, 608 and 853

335/13 Remainder = 10

608/13 Remainder = 10

853/13 Remainder = 8

So. 10 × 10 × 8 = 8000

When, 8000/13 Remainder = 7

Question 78 :

The given bar graph shows exports of cars of type A and B (in Rs millions) from 2014 to 2018. Study the graph and answer the question that follows. Study the graph and answer the question that follows. What is the ratio of the total exports of cars of type A in 2014 and 2018 to the total exports of cars of type B in 2015 and 2017?

Difficulty : Moderate

Options :

- 1.5:4
- 2. 20:21
- 3. 10:9
- 4. 13:12

Solution :

The correct answer is option 2 i.e. 20 : 21.

Total export of car A in 2014 and 2018 = 500 million

Total export of car B in 2015 and 2017 = 525 million

Thus, the required ratio = 20 : 21

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Average Time : 51 Seconds





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Question 79 :

A, B and C can do work in 8, 10, and 12 days respectively. After completing the work together, they received Rs. 5,550. What is the share of B (in Rs) in the amount received?

Difficulty : Moderate

Average Time : 41 Seconds

Options:

- 1. 1,800
- 2. 1,696
- 3. 1,500
- 4. 1,850

Solution :

The correct answer is option 1 i.e. 1,800.

The ratio of time taken by A, B, and C is 8: 10: 12 respectively

Thus, the ratio of their efficiency = 1/8: 1/10: 1/12 = 15: 12: 10

The amount received by $B = \{12/(15 + 12 + 10) \times 5550\} = (12/37) \times 5550$

12 × 150 = Rs.1800

Question 80:

What is difference in the volume (in cm3) of a sphere of radius 7 cm and that of a cone of radius 7 cm and height 10 cm? (Use =22/7)

Difficulty : Moderate

Options :

- 1. 205
- 2.704
- 3. 1078
- 4. 924

Solution :

The correct answer is option 4 i.e. 924.

The volume of a sphere = $(4/3) \times (22/7) \times \text{radius}^3$

Average Time : 44 Seconds



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The volume of a cone = $(1/3) \times (22/7) \times \text{radius}^2 \times \text{height}$

Here, the radius for both = 7

The difference in their volume = $\{(4/3) \times (22/7) \times \text{radius}^3\}$ - $\{(1/3) \times (22/7) \times \text{radius}^2 \times \text{height}\}$

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 $\{(4/3) \times (22/7) \times 343\} - \{(1/3) \times (22/7) \times 49 \times 10\}$

Taking $\{22 \times 49/7 \times 3\}$ common, we get

 ${22 \times 49/7 \times 3}{4 \times 7 - 10} = {(22 \times 7)/3}{18} = 154 \times 6 = 924$

Question 81 :

The marked price of an article is Rs.625. After allowing a discount of 32% on the marked price, there was a profit of Rs. 25. The profit percentage (correct to the nearest integer) is:

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Difficulty : Moderate

Options :

- 1. 7%
- 2. 4%
- 3. 5%
- 4. 6%

Solution :

The correct answer is option 4 i.e. 6%.

The Marked Price is Rs.625

After a discount of 32%, the selling price will be = $625 \times \{(100 - 32)/100\}$

Thus, the selling price will be = $625 \times (68/100) = (25 \times 68)/4 = 25 \times 17$

Selling Price = Rs.425

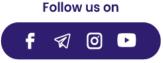
Profit = Rs.25

Cost Price = 425 - 25 = Rs.400

Profit % = (25/400) × 100 = 25/4 = 6.25% 6%

Question 82 :

At present, A is younger than B by 8 years. If 4 years ago, their ages were in the ratio 1 : 2, then what is the present age of B (in years)?



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Average Time : 61 Seconds



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Difficulty : Moderate

Average Time : 48 Seconds

Options :

- 1. 12
- 2. 20
- 3. 11
- 4. 18

Solution :

The correct answer is **option 2** i.e. **20**.

Let the present age of A = x years

So, present age of B = (x + 8) years

Four years ago, the age of A/age of B = 1/2

So, (x - 4)/(x + 4) = 1/2

2(x - 4) = (x + 4)

2x - 8 = x + 4

x = 12

Thus, the present age of B = x + 8 = 12 + 8 = 20

Question 83 :

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'. I wish I were listening to my parents.

Difficulty : Moderate

Options :

- 1. have listened
- 2. am listening
- 3. No substitution required
- 4. had listened

Solution :

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Average Time : 52 Seconds





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The correct answer is option 4 i.e. had listened.

Incorrect sentence: I wish I were listening to my parents.

"Wish" + Past perfect form of the verb should be used.

Correct sentence: I wish I had listened to my parents.

Question 84 :

Select the option that expresses the given sentence in passive voice. Do you trust me?

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Difficulty : Moderate

Options :

- 1. Do I am trusted by you?
- 2. Am I trusted by you?
- 3. Do I was trusted by you?
- 4. I am trusted by you.

Solution :

The correct answer is option 2 i.e. Am I trusted by you?

Given sentence: Do you trust me? (Active voice)

Do is changed to am and trust is changed to trusted.

And by is added.

Sentence in passive voice: Am I trusted by you?

Question 85 :

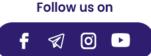
Select the most appropriate option to fill in the blank. She hardly works on weekends, _____?

Difficulty : Moderate

Options :

- 1. is she
- 2. isn't she
- 3. does she
- 4. doesn't she

Average Time : 49 Seconds



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Average Time : 45 Seconds



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Solution :

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

A negative statement is followed by a positive question tag. So, the most appropriate question tag for the filler is does she.

Question 86 :

Select the most appropriate synonym of the given word. Paranoid

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Difficulty : Moderate

Options:

- 1. Trustful
- 2. Convinced
- 3. Committed
- 4. Distrustful

Solution :

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

Synonym: Words that have the same or nearly the same meaning.

Given word: Paranoid

Meaning: feeling extremely nervous and worried because you believe that other people do not like you or are trying to harm you.

The word that seems to be its synonym is 'Distrustful' as it means feeling or showing distrust of someone or something.

Meaning of other words:

Committed: pledged or bound to a certain course or policy; dedicated.

Convinced: completely certain about something.

Trustful: having or marked by a total belief in the reliability, truth, or ability of someone.

Question 87:

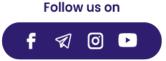
Select the most appropriate ANTONYM of the given word. Rely

Difficulty : Moderate

Options:

1. Distrust

Average Time : 62 Seconds



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Average Time : 39 Seconds





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Await

- 3. Depend
- 4. Move

Solution :

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

Antonym: a word opposite in meaning to another.

Rely means depending on with full trust or confidence.

Distrust is the correct antonym that means the feeling that someone or something cannot be relied upon.

Meaning of other words:

Await: to wait.

Depend: be controlled or determined by.

Move: go in a specified direction or manner; change position.

Question 88 :

The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer. It was a surprising / to receive the gift/ from my brother.

Average Time : 62 Seconds

Difficulty : Moderate

Options :

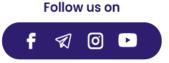
- 1. from my brother
- 2. to receive the gift
- 3. No error
- 4. It was a surprising

Solution :

The correct answer is option 4 i.e. It was a surprising.

Given sentence: It was a surprising / to receive the gift/ from my brother.

articles are only used before countable nouns. Here, 'surprising' is uncountable, so, the article 'a' should be removed before surprising.



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Correct sentence: It was surprising / to receive the gift/ from my brother.

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Question 89 :

The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer. The fisheries sector / have grown significantly / in the last one year.

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Difficulty : Moderate

Average Time : 59 Seconds

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Options :

- 1. The fisheries sector
- 2. No error
- 3. in the last one year
- 4. have grown significantly

Solution :

The correct answer is option 4 i.e. have grown significantly.

Given sentence: The fisheries sector / have grown significantly / in the last one year.

The auxiliary verb 'the sector' is the main subject and is singular, so the verb used must be singular. So, have is replaced by has.

Correct sentence: The fisheries sector / has grown significantly / in the last one year.

Question 90 :

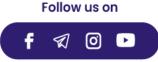
Select the INCORRECTLY spelled word.

Difficulty : Moderate

Options :

- 1. Progress
- 2. Mystery
- 3. Symtoms
- 4. Pilgrim

Solution : The correct answer is option 3 i.e. Symtoms. Average Time : 48 Seconds



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The incorrectly spelled word is "Symtoms".

Correctly spelled word: Symptoms

Meaning: an indication of the existence of something,

Example: The symptoms may be so slight they go unnoticed or so serious they could be life-threatening.

Question 91 :

The following sentence has been split into four segments. Identify the segment that contains a grammatical error. My older brother,/ which you'll / meet later,/ is a dentist.

Difficulty : Moderate

Options :

- 1. My older brother
- 2. which you'll
- 3. meet later
- 4. is a dentist

Solution :

The correct answer is option 2 i.e. which you'll.

Given sentence: My older brother,/ which you'll / meet later,/ is a dentist.

'Whom' should be used instead of 'who' as the object of the verb or preposition.

Correct sentence: My older brother,/ whom you'll / meet later,/ is a dentist.

Question 92 :

Select the option that expresses the given sentence in reported speech. Mother said, "Abhinav slipped while trying to board a bus."

Difficulty : Moderate

Average Time : 50 Seconds

Options :

- 1. Mother told that Abhinav slipped while trying to board a bus.
- 2. Mother says that Abhinav slipped while trying to board a bus.
- 3. Mother said that Abhinav had slipped while trying to board a bus.
- 4.

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Average Time : 47 Seconds





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Mother said that Abhinav slipped while trying to board a bus.

Solution :

The correct answer is option 3 i.e. Mother said that Abhinav had slipped while trying to board a bus.

Given sentence: Mother said, "Abhinav slipped while trying to board a bus."

In indirect speech, we need to remove commas and inverted commas, and the conjunction 'that' is added.

The V2 form of the verb will be changed to had + V3.

```
So, the final sentence is:
```

Mother said that Abhinav had slipped while trying to board a bus.

Question 93 :

Select the option that expresses the given sentence in active voice. Hatred can be overcome by love.

Difficulty : Moderate

Average Time : 65 Seconds

Options :

- 1. Love can overcome hatred.
- 2. Love can overcame hatred.
- 3. Love has overcome hatred.
- 4. Love is overcoming hatred.

Solution :

The correct answer is **option 1** i.e. Love can overcome hatred.

Given sentence: Hatred can be overcome by love. (Passive voice)

Structure of passive voice: can + be + V3

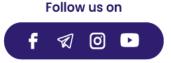
Structure of active voice: can + V1

Sentence in active voice: Love can overcome hatred.

Question 94 :

Select the most appropriate ANTONYM of the given word. Appal

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Difficulty : Moderate

Average Time : 45 Seconds

Options :

- 1. Assure
- 2. Alarm
- 3. Amaze
- 4. Astound

Solution :

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

Antonym: a word opposite in meaning to another.

Appal means to greatly dismay or horrify.

Assure is the correct antonym that means telling someone something positively to dispel any doubts.

Meaning of other words:

Alarm: an anxious awareness of danger.

Amaze: to surprise greatly; fill with astonishment.

Astound: to shock or great surprise.

Question 95 :

Select the most appropriate meaning of the given idiom. To take after

Difficulty : Moderate

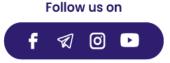
Options :

- 1. To be similar in appearance
- 2. To mock someone
- 3. To chase someone
- 4. To change sides often

Solution :

The correct answer is option 1 i.e. To be similar in appearance.

Idioms: A group of words established by usage as having a meaning not deducible from those of the individual words.



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Average Time : 50 Seconds



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"To take after" means to resemble (someone) in features, build, character, or disposition.

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Example: Most of my children take after my husband.

Comprehension :

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. An old man lived in the village. He was one of the (1) _____ unfortunate people in the world. The whole village was tired (2) _____ him; he was always gloomy, he (3) _____ complained and was always in a bad mood. The (4) _____ he lived, the more vile he was becoming and the more (5) _____ were his words.

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Question 96 :

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

Difficulty : Moderate

Options :

- 1. main
- 2. most
- 3. maximum
- 4. utmost

Solution :

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

The passage talks about an old man. "Most" should be used in blank 1 as it means to the greatest extent.

Comprehension :

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. An old man lived in the village. He was one of the (1) _____ unfortunate people in the world. The whole village was tired (2) _____ him; he was always gloomy, he (3) _____ complained and was always in a bad mood. The (4) _____ he lived, the more vile he was becoming and the more (5) _____ were his words.

Question 97 :

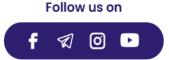
Select the most appropriate option to fill in blank number 2.

Difficulty : Moderate

Options :

- 1. at
- 2. of

Average Time : 58 Seconds



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Average Time : 69 Seconds





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from

4. by

Solution :

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

The passage talks about an old man. The phrasal verb tired of should be used which means bored with or annoyed by something.

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. An old man lived in the village. He was one of the (1) ______ unfortunate people in the world. The whole village was tired (2) _____ him; he was always gloomy, he (3) _____ complained and was always in a bad mood. The (4) _____ he lived, the more vile he was becoming and the more (5) _____ were his words.

Question 98 :

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

Difficulty : Moderate

Options:

- 1. commonly
- 2. mostly
- 3. cyclically
- 4. constantly

Solution :

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

The passage talks about an old man. The word 'constantly' would fit the context as it means continuously over a period of time; always.

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. An old man lived in the village. He was one of the (1) _____ unfortunate people in the world. The whole village was tired (2) _____ him; he was always gloomy, he (3) _____ complained and was always in a bad mood. The (4) _____ he lived, the more vile he was becoming and the more (5) _____ were his words.

Question 99:

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



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Difficulty : Moderate

Average Time : 58 Seconds

Options :

- 1. long
- 2. longer
- 3. lengthy
- 4. longest

Solution :

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

The passage talks about an old man. As the second part of the sentence is in the comparative degree, hence, 'longer' should be used in blank 4.

Comprehension :

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. An old man lived in the village. He was one of the (1) _____ unfortunate people in the world. The whole village was tired (2) _____ him; he was always gloomy, he (3) _____ complained and was always in a bad mood. The (4) _____ he lived, the more vile he was becoming and the more (5) _____ were his words.

Question 100 :

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

Difficulty : Moderate

Options :

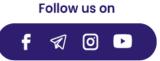
- 1. mortal
- 2. toxic
- 3. poisonous
- 4. fatal

Solution :

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

The passage talks about an old man. The word that would fit blank 5 is 'poisonous' which means extremely unpleasant.

Ssc Cgl Tier I Previous Year Question Paper



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Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2022-04-12 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 English Language, 25 questions were asked from Logical Reasoning and 25 questions were asked from General Awareness
- 4. 7 questions should have been skipped if you were short of time.

Ssc Cgl Tier I Previous Year Question Paper Topic Wise Weightage

Quantitative Aptitude

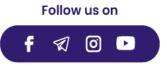
- 1. Simplification 24
- 2. Number Series 1

English Language

- 1. Cloze Test 5
- 2. Spotting Error 5
- 3. Parajumbles 1
- 4. Idioms 2
- 5. One Word Substitution 2
- 6. Fillers 1
- 7. Voice 2
- 8. Transformation Of Sentence 1
- 9. Sentence Improvement 1
- 10. Synonym 2
- 11. Antonym 2
- 12. Incorrectly Spelt 1
- 13. Incorrectly Spelt 1

Logical Reasoning

- 1. Coding Decoding 3
- 2. Analogy 2



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Classification - 1

- 4. Seating Arrangement 1
- 5. Blood Relations 1
- 6. Distance And Direction 1
- 7. Syllogism 1
- 8. Venn Diagrams 1
- 9. Dictionary Based 1
- 10. Figure Based 4
- 11. Matrix 1
- 12. Series 4
- 13. Mathematical Reasoning 3
- 14. Cubes And Dice 1

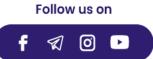
General Awareness

1. NDA GK - 25

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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