



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 2022-04-19 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 :

Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary. 1. Hatchability 2. Hatchel 3. Hatchers 4. Hatchback 5. Hatchings

Difficulty : Moderate

Average Time : 46 Seconds

Options :

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

Solution :

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

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

1. Hatchability
2. Hatchback
3. Hatchel
4. Hatchers
5. Hatchings

Question 2 :



William Hawkins met Emperor Jahangir as a representative of the _____ East India Company.

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. English
2. Portuguese
3. Dutch
4. French

Solution :

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

- On 24th of August in 1608, in Surat captain William Hawkins came in Jahangir court from East India Company.
- Hawkins commanded the ship "Hector" for East India Company on a voyage to Surat and Aden loaded with letters & presents from King of England James I.
- Jahangir called him "English Khan".

Question 3 :

As per the Economic Survey of India 2021, SENSEX and NIFTY resulted in India's market- cap to GDP ratio crossing _____ for the first time since October 2010.

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. 100%
2. 75%
3. 80%
4. 50%

Solution :

The correct answer is **option 1** i.e. **100%**.

- Buoyant SENSEX and NIFTY resulted in India's market-cap to GDP ratio crossing 100% for the first time since October 2010.
- It raises concerns on the disconnect between the financial markets and real sector.

Question 4 :

A takes 3 hours more than B to walk "d" km. If A doubles his speed, then he can make it in 1 hour less than B. How much time (in hours) does A required to walk "d" km?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 9

2. 4

3. 5

4. 8

Solution :

The correct answer is **option 4** i.e. **8**

Concept Used:

Distance = Speed × time

Time = Distance/speed

Explanation:

A takes 3 hours more than B to walk 'd' km.

If A doubles his speed, then he can make it in 1 hour less than B.

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

According to the question -

$$(d/a) - (d/b) = 3 \dots(i)$$

$$\text{Again, } (d/b) - (d/2a) = 1 \dots(ii)$$

By adding equation (i) and equation (ii), we get

$$d/2a = 4$$

$$d/a = 4 \times 2 = 8$$

So, it will take 8 hours by A to cover the distance d.

Question 5 :

A man started off a business with a certain capital amount. In the first year, he earned 60% profit and donated 50% of the total capital (initial amount+profit). He followed the same procedure with the remaining capital after the second and the



third year. If at the end of the three year, he is left with Rs 15,360, what was the initial amount (in Rs) with which the man started his business?

Difficulty : Moderate

Average Time : 79 Seconds

Options :

1. 30,000
2. 25,000
3. 20,000
4. 32,000

Solution :

The correct answer is **option 1** i.e. **30,000**

Profit% = 60% on capital

Donation = 50% of total capital(initial amount + profit)

Total capital = Initial amount + profit

Let the capital at the start be 100a.

After 1st year, his capital = $100a + 100a \times 60\% = 160a$

After donating, his capital = $160a - 160a \times 50\% = 80a$

After 2nd year, his capital = $80a + 80a \times 60\% = 128a$

After donating, his capital = $128a - 128a \times 50\% = 64a$

After 3rd year, his capital = $64a + 64a \times 60\% = 102.4a$

After donating, his capital = $102.4a - 102.4a \times 50\% = 51.2a$

ATQ -

$51.2a = \text{Rs. } 15360$

$a = 300$

$100a = 300(100) = \text{Rs. } 30000$

So, his capital at the start was Rs. 30000

Question 6 :



If $A = 60^\circ$, what is the value of:

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. 10
2. 12
3. 7
4. 9

Solution :

The correct answer is **option 4** i.e. **9**

$$A = 60^\circ$$

$$\frac{10\sin\frac{A}{2} + 8\cos A}{7\sin\frac{3A}{2} - 12\cos A}$$

$$= \frac{[(10\sin 60/2) + (8\cos 60)]}{[(7\sin 3(60)/2) - 12\cos 60]}$$

$$= \frac{[(10\sin 30) + (8\cos 60)]}{[(7\sin 90) - 12\cos 60]}$$

$$= \frac{[(10/2) + (8/2)]}{[7(1) - 12/2]}$$

$$= \frac{[5 + 4]}{1}$$

$$= 9$$

Question 7 :

In a $\triangle ABC$, D, E and F are the mid-points of side BC, CA and AB respectively, If BC = 14.4 cm, CA = 15.2 cm and AB = 12.4 cm, what is the perimeter (in cm) of the $\triangle DEF$?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. 28
2. 42
3. 35



21

Solution :

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

In ABC, D, E, and F are the midpoints of sides AB, BC, and AC respectively. Since in ABC, F is the midpoint of AC and D is the midpoint of AB.

By Midpoint theorem -

$$DE = AC/2 = 15.2/2 = 7.6$$

$$EF = AB/2 = 12.4/2 = 6.2$$

$$DF = BC/2 = 14.4/2 = 7.2$$

$$\text{Perimeter} = DE + EF + BC = 7.6 + 6.2 + 7.2 = 21$$

Question 8 :

The profit earned by selling an article for Rs 832 is equal to the loss incurred when the article is sold for Rs 448. What should be the selling price (in Rs) to make a profit of 10%?

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

1. 750
2. 715
3. 640
4. 704

Solution :

The correct answer is **option 4** i.e. **704**

Original Selling Price = Rs. 832

New Selling Price = Rs. 448

Profit earned by selling the article for Rs. 832 = Loss incurred by selling the article at Rs. 448

$$\text{Profit} = \text{SP} - \text{CP}$$

$$\text{Loss} = \text{CP} - \text{SP}$$

$$\text{SP} = \text{CP} \times \{(100 + \text{Profit}\%)/100\} \text{ (where, SP = Selling Price, CP = Cost Price)}$$

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According to the question -

Profit earned by selling the article for Rs. 832 = Loss incurred by selling the article at Rs. 448

Original SP - CP = CP - New SP

832 - CP = CP - 448

2 × CP = 832 + 448

CP = 1280/2

CP = Rs. 640

The Selling Price for making 10% profit -

SP = CP × {(100 + Profit%)/100} = 640 × {(100 + 10)/100} = 640 × (110/100) = 64 × 11 = Rs. 704

Question 9 :

In which of the following cities were the first and second test cricket matches (2021) between India and England held?

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. Mumbai
2. Ahmedabad
3. Chennai
4. Pune

Solution :

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

- The first two Test matches of IND vs ENG Test series were held at the MA Chidambaram Stadium, Chennai.
- It is also known as Chepauk Stadium.
- India have played 32 Test matches against all comers at Chepauk, registering 14 wins, losing 6 matches, drawing 11.

Question 10 :

Which of the following is NOT abiotic?

Difficulty : Moderate

Average Time : 43 Seconds

Options :



Plant

2. Soil
3. Wind
4. Rainfall

Solution :

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

- Abiotic are non-living components; such as water, soil and atmosphere.
- Biotic factors are living things within an ecosystem; such as plants, animals, and bacteria.
- Abiotic and biotic factors work together to create a unique ecosystem.

Question 11 :

Select the option related to the third number in the same way as the second number is related to the first and the sixth number is associated with the fifth number. 5: 27:: 7:? :: 8: 39

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 38
2. 37
3. 35
4. 36

Solution :

The correct answer is **option 3** i.e. **35**.

The logic used here is:

5: 27

$$(5 \times 4) + 7 = 20 + 7 = 27$$

8: 39

$$(8 \times 4) + 7 = 32 + 7 = 39$$

Similarly,

7:?



$$(7 \times 4) + 7 = 28 + 7 = 35$$

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

Question 12 :

Which two numbers need to be interchanged to make the following equation correct? $119 + 11 \times 5 - 153 \div 17 = 201$

Difficulty : Moderate**Average Time : 41 Seconds****Options :**

1. 17 and 5
2. 119 and 17
3. 119 and 153
4. 11 and 17

Solution :

The correct answer is **option 3** i.e. **119 and 153**.

Given equation: $119 + 11 \times 5 - 153 \div 17 = 201$

Let us check all the options:

Option 1: 17 and 5

The expression becomes:

$$= 119 + 11 \times 17 - 153 \div 5 = 201$$

$$= 275.4 \text{ is not equal to } 201.$$

Option 2: 119 and 17

The expression becomes:

$$= 17 + 11 \times 5 - 153 \div 119 = 201$$

$$= 70.71 \text{ is not equal to } 201.$$

Option 3: 119 and 153

The expression becomes:

$$= 153 + 11 \times 5 - 119 \div 17 = 201$$

$$= 20 \text{ is equal to } 201.$$



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

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

Question 13 :

An amount of ₹1,003 is to be distributed among A, B, and C in the ratio of 11: 23: 25. How many rupees would B get more than A?

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. ₹129
2. ₹1187
3. ₹1204
4. ₹1238

Solution :

The correct answer is **option 3** i.e. ₹1204.

Total amount = 1003

Ratio of A: B: C = 11: 23: 25

Share of A, B, and C = 11x, 23x, and 25x

$$11x + 23x + 25x = 1003$$

$$59x = 1003$$

$$x = 17$$

$$\text{Share of B - A} = 23x - 11x = 12x = 12 \times 17 = 204$$

Question 14 :

Bindu, Krunal, Manoj, Nilima, Omkar, Piyush, Renu and Sundar are sitting around a circular table facing the centre, but not necessarily in the same order. Sundar sits second to the right of Piyush. Only two persons sit between Sundar and Krunal. Omkar sits opposite to Bindu, who is not an immediate neighbour of Krunal and Piyush. Nilima is the immediate neighbour of Krunal and Bindu. Manoj sits third to the right of Bindu. Which of the following statements is/are true?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

Omkar is the immediate neighbour of Renu and Piyush.

2. Sundar sits third to the right of Krunal.

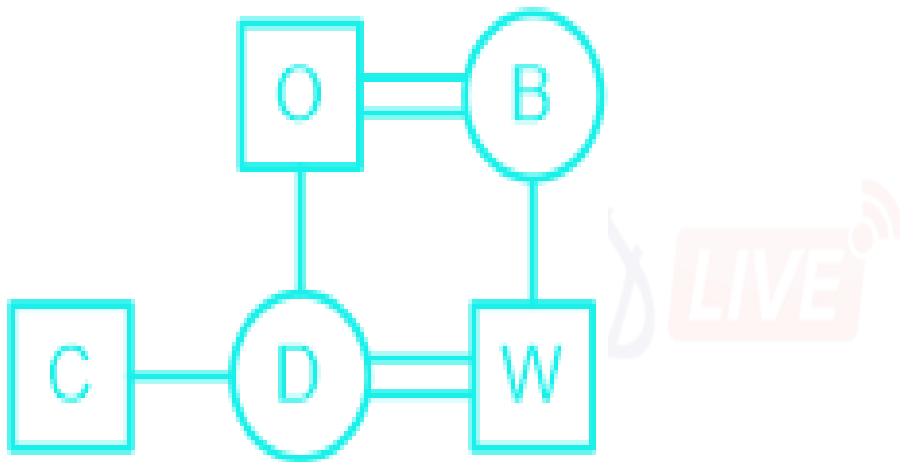
3. Nilima sits opposite the one who sits to the immediate left of Renu.

4. Manoj is the immediate neighbour of Nilima.

Solution :

The correct answer is **option 3** i.e. **Nilima sits opposite the one who sits to the immediate left of Renu.**

According to the question, the arrangement is as follows:



From the above arrangement, Nilima sits opposite the one who sits to the immediate left of Renu is true.

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

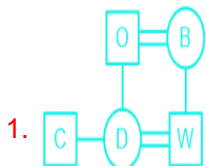
Question 15 :

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?

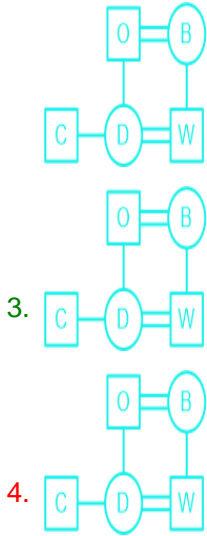
Difficulty : Moderate

Average Time : 65 Seconds

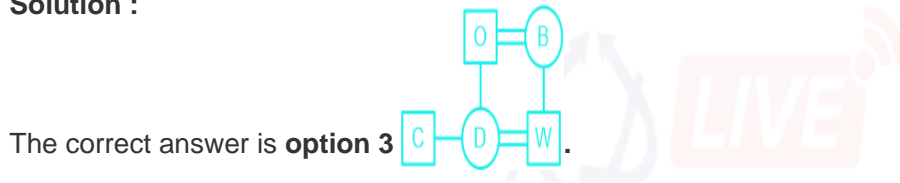
Options :



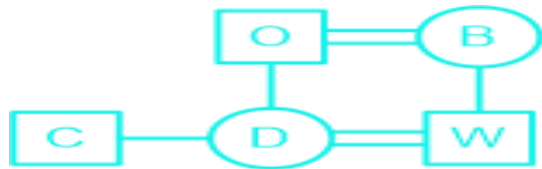
2.



Solution :



After unfolding, the paper will appear as follows:



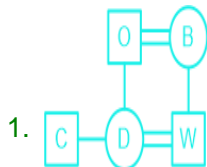
Question 16 :

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

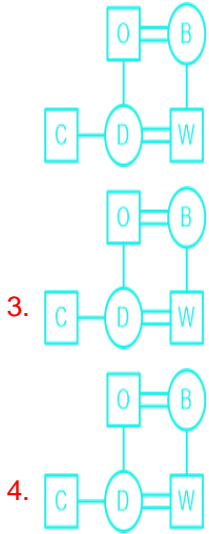
Difficulty : Moderate

Average Time : 61 Seconds

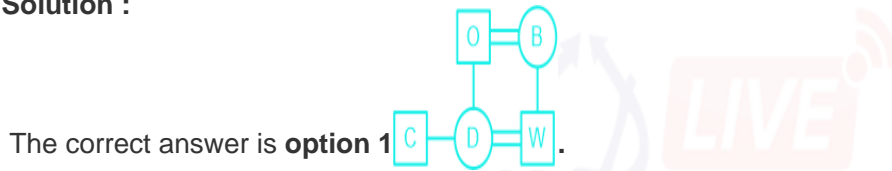
Options :



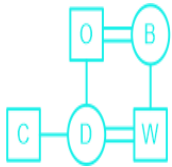
2.



Solution :



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



Question 17 :

Select the option related to the third term in the same way the second term is related to the first. FASTER: AEFRST:: KINGDOM:?

Difficulty : Moderate

Average Time : 64 Seconds

Options :

- 1. DGIKNOM
- 2. DGKIMON
- 3. DIGKMNO
- 4. DGIKMNO

Solution :

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

The logic used here is:

FASTER: AEFRST

The letters of the word are arranged in alphabetical order.

Similarly,

KINGDOM:?

KINGDOM = DGIKMNO

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

Question 18 :

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

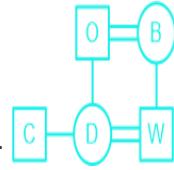
Difficulty : Moderate

Average Time : 44 Seconds

Options :

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

Solution :



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

Question 19 :

Select the number from among the given options that can replace the question mark (?) in the following series. 30, ?, 83, 118, 160, 210

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. 62
2. 54
3. 60
4. 42

Solution :

The correct answer is **option 2** i.e. **54**.

Given series: 30, ?, 83, 118, 160, 210

The series follows this pattern:

$$210 - 50 = 160$$

$$160 - 42 = 118$$

$$118 - 35 = 83$$

$$83 - 29 = 54$$

$$54 - 24 = 30$$

So, the missing term in the series is **54**.

Question 20 :

Select the number from among the given options that can replace the question mark (?) in the following series. 115, 178, 241, 304, ?

Difficulty : Moderate

Average Time : 41 Seconds

Options :



337

2. 370

3. 367

4. 348

Solution :

The correct answer is **option 3** i.e. **367**.

Given series: 115, 178, 241, 304, ?

The series follows this pattern:

$$115 + 63 = 178$$

$$178 + 63 = 241$$

$$241 + 63 = 304$$

$$304 + 63 = 367$$

So, the next term in the series is **367**.

Question 21 :

A cube is made by folding the given sheet. In the cube so formed, which number would be on the face opposite to the one having 5?

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. 6

2. 4

3. 1

4. 2

Solution :

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

From the figure;

4 is opposite to 3.



2 is opposite to 5.

1 is opposite to 6.

So, 2 is opposite to the face having the number 5.

Question 22 :

In a certain code language, 'BUILDER' is written as 'VZNFJXL'. How will 'PARKING' be written in that language?

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. JLFNEHA
2. EIFLBIM
3. IELFMIB
4. JFLENHA

Solution :

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

The logic used here is:

'BUILDER' is written as 'VZNFJXL'

$$B - 6 = V$$

$$U + 5 = Z$$

$$I + 5 = N$$

$$L - 6 = F$$

$$D - 6 = X$$

$$E + 5 = J$$

$$R - 6 = L$$

Similarly;

Code for the word PARKING:

$$P - 6 = J$$

$$A + 5 = F$$



$$R - 6 = L$$

$$K - 6 = E$$

$$I + 5 = N$$

$$N - 6 = H$$

$$G - 6 = A$$

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

Question 23 :

'PSQ' means 'P is to the north of Q'. 'P&Q' means 'P is to the east of Q'. 'P*Q' means 'Q is to the west of P'. 'P%Q' means 'Q is to the south of P'. 'P@QR' means 'P stands exactly in the middle of the horizontal line QR'. 'P!QR' means 'P stands exactly in the middle of vertical line QR'. Note: 'P6mSQ' means 'P is 6 m to the north of Q' and so on. Find the shortest distance between G and C in the following expression. C12mSS5m*G3m&J6m%K! JT

Difficulty : Moderate

Average Time : 83 Seconds

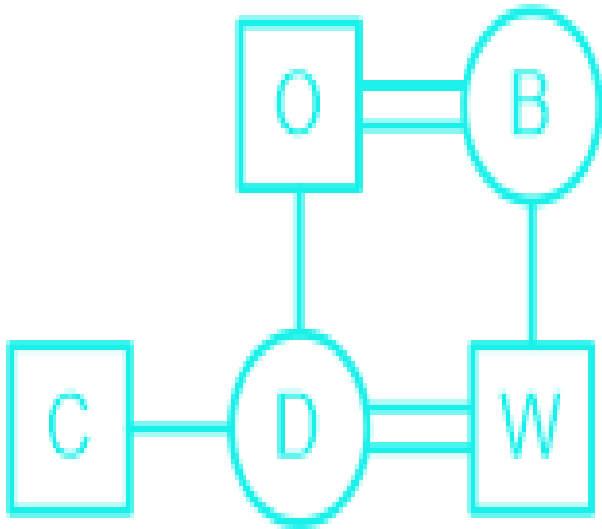
Options :

1. 15 m
2. 12 m
3. 10 m
4. 13 m

Solution :

The correct answer is **option 4** i.e. **13 m**.

Using the above information we can draw the following diagram:



From the figure;

$$GC^2 = GS^2 + SC^2$$

$$GC^2 = (5)^2 + (12)^2$$

$$GC^2 = 25 + 144$$

$$GC^2 = 169$$

$$GC = 13 \text{ m}$$

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

Question 24 :

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 calculators are markers. Some markers are pencils. Some pencils are erasers. Conclusions: I. Some erasers are markers. II. Some pencils are calculators.

Difficulty : Moderate

Average Time : 69 Seconds

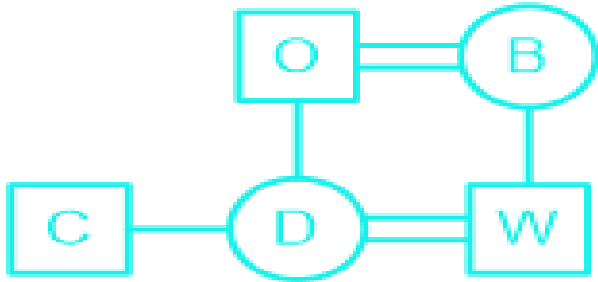
Options :

1. Only conclusion II follows.
2. Both the conclusions follow.
3. Neither conclusion I nor II follows.
4. Only conclusion I follows.

Solution :

The correct answer is **option 3** i.e. **Neither conclusion I nor II follows.**

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

**Conclusions:**

I. Some erasers are markers **False** (It is possible but no definite conclusion can be drawn.)

II. Some pencils are calculators **False** (It is possible but no definite conclusion can be drawn.)

Hence, **Neither conclusion I nor II follows.**

Question 25 :

Select the letter cluster from among the given options that can replace the question mark (?) in the following series.
SKHM, OODQ, KSZU, GWVY, ?

Difficulty : Moderate**Average Time : 64 Seconds****Options :**

1. CBRD
2. BAQC
3. CARC
4. CASC

Solution :

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

Given series: SKHM, OODQ, KSZU, GWVY, ?

The series follows this pattern:

SKHM, OODQ

S - 4 = O



$K + 4 = O$

$H - 4 = D$

$M + 4 = Q$

Similarly;

GWVY,?

$G - 4 = C$

$W + 4 = A$

$V - 4 = R$

$Y + 4 = C$

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

Question 26 :

Which order of letters will complete the following sequence? ___ A ___ G G A ___ G G A N ___

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. GNNG
2. NGNG
3. TGTG
4. SGSA

Solution :

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

The sequence is – **GNNG**

Given sequence: ___ A ___ G G A ___ G G A N ___

Option 1: GNNG

G A N G / G A N G / G A N G

Option 1 forms a particular pattern.

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

Question 27 :

In a certain code language, 'GLOVE' is coded as 148. How will 'OBDURATE' be coded in that language?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. 602
2. 402
3. 520
4. 502

Solution :

The correct answer is **option 3** i.e. **520**.

The logic used here is:

'GLOVE' is coded as 148

Opposite of G = T = 20

Opposite of L = O = 15

Opposite of O = L = 12

Opposite of V = E = 5

Opposite of E = V = 22

GLOVE = 20 + 15 + 12 + 5 + 22 = 74 × Number of vowels = 74 × 2 = 148

Similarly;

Code for the word OBDURATE:

Opposite of O = L = 12

Opposite of B = Y = 25

Opposite of D = W = 23

Opposite of U = F = 6

Opposite of R = I = 9

Opposite of A = Z = 26



Opposite of T = G = 7

Opposite of E = V = 22

OB DURATE = 12 + 25 + 23 + 6 + 9 + 26 + 7 + 22 = 130 × Number of vowels = 130 × 4 = 520

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

Question 28 :

In a certain code language, 'Min Fin Dig' means 'Sohan is Engineer' and 'Sic Ric Min Dic Fin' means 'Profession of Engineer is tough'. Which of the following is the code for 'Sohan'?

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. Dig
2. Min
3. Fin
4. Dic

Solution :

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

The logic used here is:

'Min Fin Dig' means 'Sohan is Engineer' and 'Sic Ric Min Dic Fin' means 'Profession of Engineer is tough'

Code for min = Engineer

Code for fin = is

So, code for Dig = Sohan

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

Question 29 :

Study the given pattern carefully and select the number from among the given options that can replace the question mark (?) in it. 28 54 32 56 8 7 65 8 18 84 ? 8 14 13 12

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 9

11

3. 8

4. 10

Solution :

The correct answer is **option 2** i.e. 11

Question 30 :

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

Difficulty : Moderate

Average Time : 32 Seconds

Options :

1. PSH

2. SWD

3. LPK

4. FJQ

Solution :

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

The logic used here is:

1st letter + 4 = 2nd letter

Opposite of 2nd letter = 3rd letter

Option 1: PSH

$P + 4 = T$

Opposite of T = G

This does not follow the logic.

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

Question 31 :

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

Difficulty : Moderate

Average Time : 48 Seconds

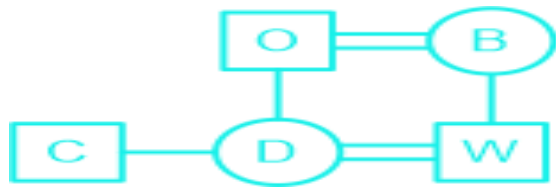
Options :

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

Solution :

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

The mirror image of the question figure is shown below:



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

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

Question 32 :

'Z + Y' means 'Y is the son of Z'. 'Z \$ Y' means 'Y is the father of Z'. 'Y % Z' means 'Y is the son-in-law of Z'. 'Z - Y' means 'Y is the wife of Z'. 'Y * Z' means 'Z is the brother of Y'. 'Y # Z' means 'Z is the only sister of Y'. Which two symbols can sequentially replace the question marks (?) in the following expression to show that 'D is the wife of W'? W % O - B ? C ? D

Difficulty : Moderate

Average Time : 91 Seconds

Options :

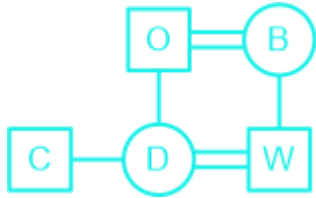
1. % and -
2. \$ and +
3. + and #
4. + and -

Solution :

The correct answer is **option 3** i.e. + and #.

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, the question marks are to be replaced by + and # to show 'D is the wife of W'.

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

Question 33 :

Which two digits should be interchanged to make the given equation correct? $37 + 1152 \times 8 \div 768 - 47 = 22$

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 5 and 6
2. 4 and 5
3. 3 and 4
4. 2 and 3

Solution :

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

Given equation: $37 + 1152 \times 8 \div 768 - 47 = 22$

Let us check all the options:

Option 1: 5 and 6

The expression becomes:

$$= 37 + 1162 \times 8 \div 758 - 47 = 22$$

$= 2.26$ is not equal to 22.

Option 2: 4 and 5

The expression becomes:



$$= 37 + 1142 \times 8 \div 768 - 57 = 22$$

= -8.10 is not equal to 22.

Option 3: 3 and 4

The expression becomes:

$$= 47 + 1152 \times 8 \div 768 - 37 = 22$$

= 22 is equal to 22.

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

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

Question 34 :

In the following Venn diagram, the triangle stands for 'fathers', the circle stands for 'engineers', the hexagon stands for 'tax-payers', and the rectangle stands for blood donors. The given numbers represent the number of persons in that particular category. How many taxpayers are also blood donors?

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. 38

2. 63

3. 61

4. 55

Solution :

The correct answer is **option 2** i.e. **63**.

The number of persons who are taxpayers and blood donors = Numbers that are common to hexagon and rectangle = 27 + 36 = 63

Question 35 :

Honoured with Padma Vibushan and Padma Bhushan, Kishori Amonkar was a renowned personality related to which of the following fields?

Difficulty : Moderate

Average Time : 37 Seconds

Options :

Economics

2. Science

3. Dance

4. Music

Solution :

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

- Kishori Amonkar, who has died aged 84, was one of Hindustani music's finest classical singers.
- A specialist in the khyal style, which emphasises emotion and improvisation, she was known for her rich, soulful voice and for combining innovation with tradition.
- She received two of the Indian government's highest civilian awards.
- In 1987 she was awarded the Padma Bhushan, which had also been awarded to her mother, and this was followed in 2002 by the Padma Vibhushan.

Question 36 :

Which of the following musical instruments is also known as a 'Mangal Vadya'?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Shehnai
2. Santoor
3. Tabla
4. Damaru

Solution :

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

- Shehnai is known as a Mangal vaidya and is usually played on all auspicious occasions in north India such as marriages, temple festivals, etc.
- The Shehnai is considered to have come to India from West Asia, other scholars believe that this instrument traveled to China from India.
- It is now a popular instrument in concerts, the sound is very sweet and suited for playing Raga Sangeet.

Question 37 :

'Sangken' is a festival of _____.



Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Sikhs
2. Jains
3. Buddhism
4. Christians

Solution :

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

- Sangken is a festival of the Khamti and Singpho tribes.
- It is a socio-religious festival observed by the Theravada Buddhist sect.
- Sangken is generally known as the 'Festival of Water'.
- During the celebration, images of Lord Buddha are bathed with holy water ceremoniously. This festival also marks the New Year and Khamti people throw water on each other as a sign of happiness.

Question 38 :

Right to Information Act _____ mandates timely response to citizen requests for government information.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 2005
2. 2004
3. 2003
4. 2002

Solution :

The correct answer is **option 1** i.e. **2005**.

- Right to Information Act 2005 mandates timely response to citizen requests for government information.
- The basic object of the Right to Information Act is to empower the citizens, promote transparency and accountability in the working of the Government, contain corruption, and make our democracy work for the people.
- It is an initiative taken by Department of Personnel and Training, Ministry of Personnel, Public Grievances and Pensions to provide a- RTI Portal Gateway to the citizens for quick search of information on the details of first Appellate Authorities, PIOs etc.

**Question 39 :**

Who among the following was honoured by the Abel Prize of 2021 in Mathematics ?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Karen Uhlenbeck
2. Qaboos
3. Laszlo Lovasz
4. Andrew Wiles

Solution :

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

- Laszlo Lovasz is a Hungarian mathematician best known for his work in combinatorics, for which he was awarded the 2021 Abel Prize.
- Inspired by Erdos, Lovasz won gold medals in the International Mathematical Olympiad competition in each of the three years 1964, 1965 and 1966.
- Lovasz's first paper '*On graphs not containing independent circuits*' was published in 1965 when he was seventeen years old.

Question 40 :

Which of the following is a type of plant disease?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Blight
2. Mastitis
3. Botulism
4. Coccidiosis

Solution :

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

- Common on tomato and potato plants, early blight is caused by the fungus *Alternaria solani*, and occurs throughout the United States.
- Symptoms first appear on the lower, older leaves as small brown spots with concentric rings that form a "bull's eye"



pattern.

- As the disease matures, it spreads outward on the leaf surface causing it to turn yellow, wither and die.

Question 41 :

Which of the following states won the maximum number of medals at the Khelo India Youth Games 2020?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Punjab
2. Maharashtra
3. Haryana
4. Kerala

Solution :

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

- The 3rd season of the Khelo India Youth Games concluded in 2020.
- Maharashtra retained its reign in the Khelo India Youth Games held in Guwahati with 256 medals including 78 gold.
- Haryana stood second with a total of 200 medals.
- Delhi finished third with 122 medals.

Question 42 :

How many sodium atoms are there in one molecule of sodium peroxide?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Four
2. Three
3. One
4. Two

Solution :

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

- Sodium peroxide appears as a yellow-white to yellow granular solid.
- It is used as a chemical intermediate, catalyst, oxidizing agent, antiseptic, and bleaching agent for textiles, paper,



and other products; Also used in oxygen supply systems, water purification, ore processing, and chemical analysis.

Question 43 :

Which of the following words does not appear before the word 'Republic' in the Preamble of the Constitution of India?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Socialist
2. Federal
3. (Sovereign
4. Democratic

Solution :

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

- The Preamble is called the introduction letter of the Indian Constitution.
- The preamble was amended by the 42nd Constitutional Amendment Act in 1976, in which three new words Socialist, Secular, and Integrity were added.
- The Preamble serves as an introduction to the Constitution.
- It secures justice, liberty, equality to all the citizens of India and promotes fraternity among the people.

Question 44 :

Which of the following events occurred before 1919?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Lahore Session of Congress
2. Partition of Bengal
3. Chauri Chaura Incident
4. Gandhi-Irwin Pact

Solution :

The correct answer is **option 2** i.e. **Partition of Bengal**.

- The decision to split Bengal came in July and by October 16, 1905, Bengal had been divided into East Bengal and West Bengal.



Assam (with a population of 31 million) and the rest of Bengal (with a population of the 4 million of who 18 million were Bengalis, and 36 million Biharis and Oriyas).

- The decision had come after Lord Curzon claimed that Bengal was too large to be governed effectively.

Question 45 :

_____ is a group of islands found in the tropical oceans consisting of coral reefs and a central depression.

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

1. Lagoon
2. Atoll
3. Seamount
4. Guyots

Solution :

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

- An Atoll is a ring-shaped coral reef, island or chain of islands around a body of water called a lagoon.
- The process of atoll formation may take as long as 30,000,000 years to occur.
- Atolls are more or less annular reef and reef-island systems found mostly in oceanic mid-plate settings, where they rest on the peaks of submarine volcanic edifices.

Question 46 :

Which of the following was the first development bank in India?

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

1. National Housing Bank
2. Export Import Bank of India
3. Industrial Finance Corporation of India
4. Industrial Development Bank of India

Solution :

The correct answer is **option 3** i.e. **Industrial Finance Corporation of India**.

- IFCI Ltd (IFCI) was set up as a Statutory Corporation ("The Industrial Finance Corporation of India") in 1948 for



providing medium and long term finance to industry.

- In 1993, after repeal of the Industrial Finance Corporation Act, IFCI became a Public Limited Company, registered under the Companies Act, 1956.
- IFCI is also registered with the Reserve Bank of India (RBI) as a Systemically Important Non-Deposit taking Non-Banking Finance Company (NBFC-ND-SI) and is also a notified Public Financial Institution under Section 2(72) of the Companies Act, 2013.

Question 47 :

Which of the following sages of ancient India wrote the 'Mimamsa-sutra'?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Badrayan
2. Charak
3. Jaimini
4. Panini

Solution :

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

- Mimamsa Sutras comprise the religious text of the Mimamsa school of Hindu philosophy in the form of roughly 2,500 aphorisms.
- It is believed to have been written in the second century B.C.E. by Jaimini, who is also sometimes credited with founding the Mimamsa system, although most scholars believe Mimamsa predates him.
- Jaimini's sutras have 12 adhyayas (chapters), 60 padas (sections) and nearly 900 adhikaranas (discussions).

Question 48 :

Which of the following is NOT a chemical coagulant used in water treatment?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Aluminium sulfate (Alum)



Polyaluminium chloride (PAC)

3. Aluminium chloride

4. Nitrogen dioxide

Solution :

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

- Aluminium sulfate is the most commonly used chemical for coagulation in wastewater treatment.
- It also include sodium aluminate, ferric sulfate, and ferric chloride.
- Nitrogen Dioxide (NO₂) is one of a group of highly reactive gases known as oxides of nitrogen or nitrogen oxides (NO_x).

Question 49 :

As per the theory of demographic transition, the post-transitional stage of demographic transition is characterised by _____.

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. high and nearly equal birth and death rates
2. falling birth rates and high death rates
3. falling death rates and high birth rates
4. low and nearly equal birth and death rates

Solution :

The correct answer is **option 4** i.e. **low and nearly equal birth and death rates**.

- . Post-transitional societies are characterised by low birth and low death rates. Population growth is negligible, or even enters a decline.
- he demographic transition theory is a generalised description of the changing pattern of mortality, fertility and growth rates as societies move from one demographic regime to another.
- The term was first coined by the American demographer Frank W. Notestein in the mid-twentieth century.

Question 50 :

Saccharomyces Cerevisiae is commonly used to make _____.

Difficulty : Moderate

Average Time : 57 Seconds

Options :



cheese

2. bread

3. yoghurt

4. carbonated beverages

Solution :

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

- Saccharomyces cerevisiae, also known as brewer's or baker's yeast, has been a key ingredient in baking, winemaking, and brewing for millennia.
- It derives its name from the Latinized Greek meaning "sugar fungus" because it converts sugars and starches into alcohol and carbon dioxide during the fermentation process.

Question 51 :

Which of the following is an example of 'Arthropod'?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Blood sucking leech
2. Scorpion
3. Hookworm
4. Earthworm

Solution :

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

- Arthropods are invertebrates with jointed legs.
- They include many animals we come across in our gardens, such as spiders, ants, centipedes and slaters.
- Arthropods are divided into four major groups: insects; myriapods (including centipedes and millipedes); arachnids (including spiders, mites and scorpions); crustaceans (including slaters, prawn and crabs).

Question 52 :

The Economic Survey of 2020-21 mentions that India's fiscal policy should reflect _____ sentiment of 'a mind without fear'.



Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Shyama Prasad Mukherjee's
2. Jawaharlal Nehru's
3. Mahatma Gandhi's
4. Gurudev Rabindranath Tagore's

Solution :

The correct answer is **option 4** i.e. **Gurudev Rabindranath Tagore's**.

- India's fiscal policy should reflect Gurudev Rabindranath Tagore's sentiment of 'a mind without fear' as per the Economic Survey of 2020-21.
- In 1913, he became the first Indian to receive a Nobel Prize in Literature for his novel 'Geetanjali'.
- He wrote the National Anthems of India and Bangladesh.
- Tagore was primarily known as a writer, poet, playwright, philosopher and aesthetician, music composer and choreographer, founder of a unique educational institution – Visva- Bharati and a painter.
- Tagore wrote his first poetry aged He published his first poems aged 16 under the pen-name 'Bhanusimha'.

Question 53 :

According to World Health Organization (WHO), "Hygiene refers to _____ and practices that help to maintain _____ and _____ the spread of diseases."

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. situations, fitness, prevent
2. conditions, health, prevent
3. conditions, physique, retard
4. values, health, stop

Solution :

The correct answer is **option 2** i.e. **conditions, health, prevent**.

- The meaning of HYGIENE is a science of the establishment and maintenance of health.
- Hygiene refers to behaviors that can improve cleanliness and lead to good health, such as frequent handwashing,



facial cleanliness, and bathing with soap and water.

- Many diseases can be prevented through proper hygiene practices, such as covering your cough and sneezes, washing hands after handling animals, and showering before you swim.

Question 54 :

Alladi Krishnaswami Ayyar was the chairman of the _____ of the Constituent Assembly of India.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Order of Business Committee
2. Credential Committee
3. Union Powers Committee
4. Fundamental Rights Sub-Committee

Solution :

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

- Alladi Krishnaswamy Ayyar was born on 14th May 1883 in Pudur village, Andhra Pradesh.
- He became a prominent member of the Bar and was appointed as the Advocate-General of Madras State from 1929 to 1944 at the age of 45.
- He was also made the Dewan Bahadur in 1930. In 1932 he got knighted in the New Year Honours List. However, he surrendered the Knighthood.
- In the Constituent Assembly, he was part of nine Committees including the Drafting Committee, Advisory Committee, and the Sub-Committee on Fundamental Rights.

Question 55 :

Who among the following won the 2020 JCB Prize for Literature?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. Santhosh Echikkanam
2. Kureepuzha Sreekumar
3. S Hareesh
4. KR Meera

Solution :



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

- The winner of the JCB Prize for Literature was Hareesh's "Moustache" (2020) M. Mukundan's "Delhi: A Soliloquy" , translated from Malayalam by Fathima E.V. and Nandakumar K.
- Moustache is the second translated novel to win the award, after Benyamin's Jasmine Days, also in Malayalam, translated by Shahnaz Habib, in 2018.
- The JCB Prize for Literature is a Rs 25-lakh award presented each year to a distinguished work of fiction by an Indian author.

Question 56 :

Select the most appropriate synonym of the given word. Commute

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Condense
2. Convert
3. Conserve
4. Consume

Solution :

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

- The meaning '**Commute**' is '**to travel a long distance from home to work every day**'.
- The meaning of the options are as follows.

1. **Condense**- to change or make something change from gas to liquid
2. **Convert**- to change from one form, system or use to another
3. **Conserve**- to avoid wasting something
4. **Consume**- to use something such as fuel, energy or time

Hence, as per the meanings the correct synonym is-

Convert**Question 57 :**

Select the most appropriate ANTONYM of the given word. Altercation

Difficulty : Moderate

Average Time : 58 Seconds

Options :

Quarrel

2. Agreement

3. Controversy

4. Argument

Solution :

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

- The meaning of '**Altercation**' is '**a noisy argument or disagreement**'.
- The meaning of the options are as follows.

1. **Quarrel**- an angry argument or disagreement.
2. **Agreement**- the state of agreeing with somebody/something.
3. **Controversy**- public discussion and disagreement about something.
4. **Argument**- an angry discussion between two or more people who disagree with each other.

Hence, as per the meanings the correct antonym is-

Agreement

Question 58 :

Select the correct passive voice form of the given sentence. The children are doing hard work.

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Hard work was being done by the children.
2. Hard work had been done by the children.
3. Hard work is being done by the children.
4. Hard work is done by the children.

Solution :

The correct answer is **option 3** i.e. **Hard work is being done by the children.**

- The above sentence is in **present continuous tense**.
- The structure to be followed to change into passive voice is.

1. Object+be+V1-ing+Subject



Both Subject and the Object will in active voice.

Hence, the correct sentence is-

Hard work is being done by the children.

Question 59 :

Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'. In the olden days, many people used to think that the earth was flat.

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. people were used to think
2. No substitution required
3. people used to think
4. people were thinking

Solution :

The correct answer is **option 3** i.e. **people used to think**

- 'Used to' is a modal verb that shows past habits.
- Hence, in the sentence 'use to' will be replaced by 'used to'.

Hence, the correct sentence is-

In the olden days, many people **used to think** that the earth was flat.

Question 60 :

Select the option that expresses the given sentence in passive voice. Arrest the thief.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Let the thief is arrested.
2. Let the thief be arrested.
3. The thief has been arrested.
4. The thief is arrested.

Solution :



The correct answer is **option 2** i.e. **Let the thief be arrested.**

- The above sentence is an **imperative sentence**.
- While changing an **imperative sentence into passive voice** following structure will be followed.

1. Let+Object+be+Past participle.

Hence, the correct sentence is-

Let the thief be arrested.

Question 61 :

Given below are four sentences which are jumbled. Pick the option that gives their correct order. A. It also wants to know how many students have been provided nutritious food and improved their overall health. B. The Midday Meal Scheme, that aims to provide free food to children, is in focus again. C. About 1.3 million government schools are covered under this welfare program of children. D. The Government now wants to take stock of the implementation of the program,

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. ADCB
2. ADBC
3. BACD
4. BCDA

Solution :

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

- The starting sentence of paragraph is a general statement which in this case is **B**.
- The next sentence will be **C** which talks about how many schools are covered under the government schemes.
- The next will be **D** which talks about the government intention to take a closer look at the implementation of the program.
- The concluding part of the paragraph will be **A** which talks about the intention of the government to take a closer look on how many students are fed nutritious food.

Hence, the correct paragraph is-

The Midday Meal Scheme, that aims to provide free food to children, is in focus again. About 1.3 million government schools are covered under this welfare program of children. The Government now wants to take stock of the implementation of the program, It also wants to know how many students have been provided nutritious food and improved their overall health.

**Question 62 :**

The following sentence has been split into four segments. Identify the segment that contains a grammatical error. Several minutes passed / before she returned / carry milk / for the dog.

Difficulty : Moderate**Average Time : 82 Seconds****Options :**

1. before she returned
2. carry milk
3. for the dog
4. Several minutes passed

Solution :

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

1. In the above sentence there are two clauses, **the main clause and the subordinate clause**. In the subordinate clause **'returned'** is the main and transitive verb and after the transitive verb **object** is used.
2. In the sentence **'carrying'** will be used instead of **'carry'**.

Hence, the correct sentence is-

Several minutes passed before she returned **carrying milk** for the dog.

Question 63 :

Select the option that expresses the given sentence in indirect speech. "What is Sonia saying?" said Rohit.

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

1. Rohit asked what was Sonia saying.
2. Rohit asked that what was Sonia saying.
3. Rohit asked what is Sonia saying.
4. Rohit asked what Sonia was saying.

Solution :

The correct answer is **option 4** i.e. **Rohit asked what Sonia was saying.**

- The above sentence is an **interrogative** sentence.
- In order to change these sentences into indirect speech **'said'** will be changed to **'enquired'** and **'wanted to know'**



will be changed to 'asked'

- In indirect speech verb is always placed after the **subject**.
- Then, '**Soniya is saying**' will be changed to '**Soniya was saying**'.
- The above direct speech sentence is in '**Present continuous tense**' so, the indirect speech will be in '**Past continuous tense**'.

Hence, the correct sentence is-

Rohit asked what Sonia was saying.

Question 64 :

Select the most appropriate meaning of the given idiom. Sticky fingers

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. A habit of licking fingers
2. A tendency to forget
3. An inclination to steal
4. A tendency to interfere

Solution :

The correct answer is **option 3** i.e. **An inclination to steal**

- The meaning of the above idiom is '**a propensity to steal**'.

Hence, the correct answer is-

An inclination to steal

Question 65 :

Select the option that can be used as a one-word substitute for the given group of words. A person who travels on foot.

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Dweller
2. Flyer

Rover

4. Pedestrian

Solution :

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

- The meaning of the options are as follows.
1. **Dweller**- a person or animal that lives in the place mentioned
 2. **Flyer**- a person who travels in a plane as a passenger
 3. **Rover**- a person who spends their time wandering.
 4. **Pedestrian**- a person who is walking in the street

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

Pedestrian

Question 66 :

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 has been / raining intermittently / since two days.

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. raining intermittently
2. No error
3. It has been
4. since two days

Solution :

The correct answer is **option 4** i.e. **since two days**

- The error is in the last part of the sentence i.e. '**since two days**' as '**since**' is used '**with a point in time in past**'.
- Hence, instead of '**since**' '**for**' should be used.

Hence, the correct sentence is-

It has been raining intermittently **for** two days.



Question 67 :

Select the option that gives the most appropriate meaning of the underlined idiom. The new electrician is a green horn, but will learn fast.

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Professional
2. Inexperienced
3. Proficient
4. Efficient

Solution :

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

- The meaning of the above idiom is ' a person who is new and inexperienced'.

Hence the correct answer is-

Inexperienced

Question 68 :

Select the most appropriate option to fill in the blank. I am expected to follow all your instructions, _____?

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. is it
2. am I
3. isn't it
4. aren't I

Solution :

The correct answer is **option 4** i.e. **aren't I**

- The use of '**aren't I**' is done done informally for asking a question.
- The above sentence talks about a person who asks if he is expected to follow all the instructions.

Hence, the correct answer is-



aren't I

Question 69 :

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 Taj Mahal / is one of / the most beautiful / creation in the world.

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. is one of
2. creation in the world
3. the most beautiful
4. The Taj Mahal

Solution :

The correct answer is **option 2** i.e. **creation in the world**

- The error is in the last part of the sentence where instead of preposition 'in' preposition 'of' should be used.

Hence, the correct sentence is-

The Taj Mahal is one of the most beautiful creation **of** the world.

Question 70 :

The following sentence has been split into four segments. Identify the segment that contains a grammatical error. She performed / the task / at the best / of her ability.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. at the best
2. the task
3. of her ability
4. She performed

Solution :

The correct answer is **option 1** i.e. **at the best**



The meaning of **'to the best of one's ability'** is **'to be able to make the best use of the resources available'**.

- The use of **'at'** is incorrect instead of which **'to'** needs to be used.

Hence, the correct sentence is-

She performed the task **to the best** of her ability.

Question 71 :

Select the most appropriate ANTONYM of the given word. Spacious

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Boundless
2. Extensive
3. Roomy
4. Cramped

Solution :

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

- The meaning of the word **'Spacious'** is **'having a lot of space'**.
- The meaning of the options are as follows.

1. **Boundless**- having no limit
2. **Extensive**- large in area or amount
3. **Roomy**- having plenty of space
4. **Cramped**- not having enough space

Hence, as per the meanings the correct antonym is-

Cramped**Question 72 :**

Select the INCORRECTLY spelt word.

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Adjourn
2. Exhaust



Ensure

4. Purity

Solution :

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

- The correct spelling of 'Exhast' is 'Exhaust'.
- All the other options are spelt correctly.

Hence, the correct answer is-

Exhaust

Question 73 :

Select the option that can be used as a one-word substitute for the given group of words. A fixed sum paid annually

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Bonus
2. Honorarium
3. Alimony
4. Annuity

Solution :

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

- The meaning of the options are as follows.
1. **Bonus**- a payment that is added to what is usual
 2. **Honorarium**- a payment made for somebody's professional services, when no particular amount is charged for those services
 3. **Alimony**- money that you have to pay by law to your former wife or husband after getting divorced
 4. **Annuity**- a fixed amount of money that is paid to somebody each year, usually for the rest of his/her life

Hence, as per the meanings the correct answer is-

Annuity

Question 74 :

Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to



substitute it, select 'No substitution required'. Such was his performance that the audience gave a standing ovation.

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. No substitution required
2. So was
3. Much was
4. Such as

Solution :

The correct answer is **option 1** i.e. **No substitution required**

- '**Such**' is used before a noun or a noun phrase to add emphasis.
- In the above sentence 'such' acts as a noun.

Hence, the correct answer is-

No substitution required

Question 75 :

Select the most appropriate synonym of the given word. Obstruct

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. Approve
2. Permit
3. Match
4. Block

Solution :

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

- The meaning of the options are as follows.
- 1. **Approve**- to be pleased about something
- 2. **Permit**- to allow somebody to do something or to allow something to happen
- 3. **Match**- an organized game or sports event



Block- to stop something

- The meaning of '**obstruct**' is '**to stop something from happening**'.

Hence, as per the meaning the correct synonym is-

Block

Comprehension :

Directions: In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank. There is so much (1) _____ and confusion in life today because the goal of human beings is not clear. Each person (2) _____ to fulfil his desires and dreams without (3) _____ the interest of the other. When we have a (4) _____ motive, we lose the sense of the higher objective of attaining happiness. Therefore, there is lot of (5) _____ in our life.

Question 76 :

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

Difficulty : Moderate

Average Time : 78 Seconds

Options :

1. **certainty**
2. **uncertainty**
3. **reliability**
4. **positivity**

Solution :

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

- The sentence talks about the **confusion** in the human life these days.
 - The meaning of the options are as follows.
1. **certainty**- the state of being completely sure about something.
 2. **uncertainty**- the lack of certainty.
 3. **reliability**- the quality of being able to be trusted or believed.
 4. **positivity**- the practice of being or tendency to be positive or optimistic in attitude.

Clearly, as per the meaning of the options the correct answer is-

uncertainty

**Comprehension :**

Directions: In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank. There is so much (1) _____ and confusion in life today because the goal of human beings is not clear. Each person (2) _____ to fulfil his desires and dreams without (3) _____ the interest of the other. When we have a (4) _____ motive, we lose the sense of the higher objective of attaining happiness. Therefore, there is lot of (5) _____ in our life.

Question 77 :

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

Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. want
2. wants
3. has want
4. have want

Solution :

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

- The sentence talks about a person's desire to fulfill his/her dreams.
- Amongst the options available the correct option is **wants**.

Hence, the correct answer is-

wants

Comprehension :

Directions: In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank. There is so much (1) _____ and confusion in life today because the goal of human beings is not clear. Each person (2) _____ to fulfil his desires and dreams without (3) _____ the interest of the other. When we have a (4) _____ motive, we lose the sense of the higher objective of attaining happiness. Therefore, there is lot of (5) _____ in our life.

Question 78 :

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

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. describing



considering

3. disregarding

4. excluding

Solution :

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

- The sentence talks how people have become **insensitive** towards others.
- Today people are worried only about **their desires without even taking into consideration the consequences.**

Hence, the correct answer is-

considering

Comprehension :

Directions: In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank. There is so much (1) _____ and confusion in life today because the goal of human beings is not clear. Each person (2) _____ to fulfil his desires and dreams without (3) _____ the interest of the other. When we have a (4) _____ motive, we lose the sense of the higher objective of attaining happiness. Therefore, there is lot of (5) _____ in our life.

Question 79 :

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

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. humane
2. selfless
3. selfish
4. noble

Solution :

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

- The paragraph in general talks about how people have become **self centered.**
- Amongst all the options given **selfish** is the correct answer which means '**thinking only about your own needs or wishes and not about other people's**'.

Hence, the correct answer is-

selfish

Comprehension :

Directions: In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank. There is so much (1) _____ and confusion in life today because the goal of human beings is not clear. Each person (2) _____ to fulfil his desires and dreams without (3) _____ the interest of the other. When we have a (4) _____ motive, we lose the sense of the higher objective of attaining happiness. Therefore, there is lot of (5) _____ in our life.

Question 80 :

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

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. concord
2. strife
3. harmony
4. peace

Solution :

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

- The sentence talks about the **uneasiness** amongst the different groups.
- The selfishness in the people has created a lot of **friction** amongst people.
- Amongst the options the correct answer is '**strife**' which means '**fighting among people or groups**'.

Hence, the correct answer is-

strife

Question 81 :

A shopkeeper offers his customers a discount of 10%. On an item marked at a price of Rs 400, which was a little damaged, he offered an additional discount of 10%. At what price (in RS) is the item available to the customer?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 324
2. 300



320

4. 340

Solution :

The correct answer is **option 1** i.e. **324**

MP of the item = Rs. 400

Discount % for 1st and 2nd = 10%

Selling Price = Marked Price - (MP × Discount%)

Price after 1st discount = $400 - (400 \times 10\%) = 360$

Price after 2nd discount = $360 - (360 \times 10\%) = 324$

The cost price of the customers after two discounts = Rs. 324

Question 82 :

The length of the shadow on the ground of a tall tree of height 30m is 103m. What is the angle (in degrees) of elevation of the sun?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. 45

2. 30

3. 60

4. 15

Solution :

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

In $\triangle ABC$ -

Let AB be the tower and BC be its shadow.

$\tan = AB/BC$

$\tan = 30/103 = 3$

$\tan = \tan 60^\circ$



$$= 60^0$$

Question 83 :

If $3\sin^2 + 4\cos - 4 = 0$, $0^\circ < \theta < 90^\circ$, then the value of $(\operatorname{cosec}^2 \theta + \cot^2 \theta)$ is

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

1. $5/4$
2. $4/3$
3. $17/9$
4. $25/3$

Solution :

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

$$3\sin^2 + 4\cos - 4 = 0$$

$$\sin^2 + \cos^2 = 1$$

$$\text{Hypotenuse(H)}^2 = \text{Perpendicular(P)}^2 + \text{Base(B)}^2$$

$$3\sin^2 + 4\cos - 4 = 0$$

$$3(1 - \cos^2) + 4\cos - 4 = 0$$

$$3 - 3\cos^2 + 4\cos - 4 = 0$$

$$-3\cos^2 + 4\cos - 1 = 0$$

$$3\cos^2 - 4\cos + 1 = 0$$

$$3\cos^2 - 3\cos - \cos + 1 = 0$$

$$3\cos(\cos - 1) - 1(\cos - 1) = 0$$

$$(\cos - 1)(3\cos - 1) = 0$$

$$\cos = 1, 1/3$$

But $\cos = 1$ is not possible because it is given $0^\circ < \theta < 90^\circ$ and $\cos 0^\circ = 1$

Thus, $\cos = 1/3$

$$\cos = B/H$$



$$H^2 = B^2 + P^2$$

$$3^2 = 1^2 + P^2$$

$$9 = 1 + P^2$$

$$9 - 1 = P^2$$

$$8 = P^2$$

$$22 = P$$

$$\text{So, } \operatorname{cosec}^2 + \cot^2 = (3/22)^2 + (1/22)^2 = (9/8) + (1/8) = (9 + 1)/8 = 10/8 = 5/4$$

Question 84 :

If $a^3 + b^3 = 218$ and $a + b = 2$, then the value of $1-ab$ is :

Difficulty : Moderate

Average Time : 88 Seconds

Options :

1. 4

2. 3

3. 5

4. 6

Solution :

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

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

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

$$218 = 2[(a + b)^2 - 3ab]$$

$$218/2 = 2^2 - 3ab$$

$$109 = 4 - 3ab$$

$$-3ab = 109 - 4 = 105$$

$$ab = -105/3 = -35$$

$$1-ab = 1 - (-35) = 36 = 6$$

**Question 85 :**

From the body of a solid cube of edge 7cm, a solid sphere is removed. The volume of the remaining solid was found to be 163.333cm^3 . What is the diameter (in cm) of the sphere? (Take $\pi = 22/7$)

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. 8
2. 7
3. 10
4. 5

Solution :

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

Edge of cube = 7 cm

The volume of cube = $\text{edge}^3 = 7^3 = 343 \text{ cm}^3$

Volume of sphere = Volume of cube - Volume of remaining solid = $343 - 163.333 = 179.667$

Volume of sphere = $4r^3/3$

$179.667 = 4r^3/3$

$373.007/4 = r^3$

$r^3 = 42.875$

$r = 3.5$

Diameter of sphere = $2r = 2(3.5) = 7 \text{ cm}$

Question 86 :

The value of is:

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. $\frac{42}{79}$
2. $\frac{30}{79}$

$$\sqrt{\frac{24}{79}}$$

4. $\sqrt{\frac{36}{19}}$

Solution :

The correct answer is **option 4** i.e. $\sqrt{\frac{36}{19}}$

Explanation:

From the given question,

$$\frac{\left[\frac{3}{8} - \left\{\frac{3}{8} - \left(\frac{5}{8} - \frac{3}{8}\right)\right\}\right] \text{ of } 4.8 - 0.9}{4 \frac{1}{6} \div 2.5 \times 0.2 \div \frac{1}{5} \text{ of } 50 + \left(\frac{3}{4} - \frac{1}{8}\right)}$$

$$\sqrt{\left[\left\{\frac{3}{8} - \left\{\frac{3}{8} - \left(\frac{5}{8} - \frac{3}{8}\right)\right\}\right\} \text{ of } 4.8 - 0.9\right] \div \left[25 \frac{1}{6} \div 2.5 \div 0.2 \div 10 + \left(\frac{3}{4} - \frac{1}{8}\right)\right]}$$

$$\sqrt{\left[\left(\frac{2}{8} \text{ of } 4.8 - 0.9\right) \div \left[\frac{1}{30} + \frac{5}{8}\right]\right]}$$

$$\sqrt{\frac{0.3 \text{ of } (4 + 15)}{120}}$$

$$\sqrt{\frac{0.3 \text{ of } 19}{120}}$$

$$\sqrt{\frac{36}{19}}$$

Hence the value of $4 \frac{1}{6} \div 2.5 \times 0.2 \div \frac{1}{5} \text{ of } 50 + \left(\frac{3}{4} - \frac{1}{8}\right)$ is $\sqrt{\frac{36}{19}}$.

Question 87 :

A invested 30% more than B. B invested 40% less than C, who invested Rs 8,000. The average of the total amount invested by all of them together (to the nearest Rs) is:

Difficulty : Moderate

Average Time : 78 Seconds

Options :

1. 6,417
2. 6,215
3. 6,143



6,347

Solution :

The correct answer is **option 4** i.e. **6,347**

Given:

A invested 30% more than B

B invested 40% less than C

Investment of C = Rs. 8000

Concept Used:

$\text{Average} = \frac{\text{Sum of elements}}{\text{No. of elements}}$

Explanation:

Investment of B = $8000 - 8000 \times 40\% = \text{Rs. } 4800$

Investment of A = $4800 + 4800 \times 30\% = \text{Rs. } 6240$

Total investment of them = $6240 + 4800 + 8000 = 19040$

Average of the investment of them = $\frac{19040}{3} = \text{Rs. } 6346.67 \text{ Rs. } 6347$

Question 88 :

PQ and RS are two parallel chords of a circle of length 14 cm and 48 cm, respectively, and lie on the same side of the centre O. If the distance between the chords is 17 cm, what is the radius (in cm) of the circle?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. 28

2. 25

3. 20

4. 24

Solution :

The correct answer is **option 2** i.e. **25**

PQ = 14 cm



$$RS = 48 \text{ cm}$$

O is the center.

The perpendicular from the center of a circle to a chord bisects the chord.

Pythagoras theorem -

$$\text{Hypotenuse}^2 = \text{Perpendicular}^2 + \text{Base}^2$$

Let OX RS and OY PQ.

Let OX be d.

$$XY = 17$$

$$OY = (d + 17)$$

Applying Pythagoras' theorem in OXS -

$$OS^2 = OX^2 + XS^2$$

$$OS^2 = d^2 + 24^2$$

In OYQ -

$$OQ^2 = OY^2 + YQ^2$$

$$OQ^2 = (d + 17)^2 + 7^2$$

$$d^2 + 24^2 = (d + 17)^2 + 7^2 \text{ [OS = OQ = radius of the circle]}$$

$$d^2 + 576 = d^2 + 172 + 2 \times d \times 17 + 49$$

$$576 = 289 + 34d + 49$$

$$34d = 576 - 289 - 49$$

$$34d = 238$$

$$d = 238/34$$

$$d = 7$$

$$OS^2 = 7^2 + 24^2$$

$$OS^2 = 49 + 576$$

$$OS^2 = 625$$

$$OS = 25$$



Radius of the circle = 25 cm

Question 89 :

Study the given bar graph and answer the question that follows. The bar graph shows the exports of cars of type A and B (in Rs millions) from 2014 to 2018. What is the ratio of the total exports of cars of type A in 2016 and 2018 to the total exports of cars of type B in 2014 and 2017?

Difficulty : Moderate

Average Time : 99 Seconds

Options :

1. 11 : 10
2. 23 : 20
3. 10 : 9
4. 25 : 16

Solution :

The correct answer is **option 2** i.e. **23 : 20**

The total exports of cars of type A in 2016 and 2018 = $275 + 300 = 575$

The total exports of cars of type B in 2014 and 2017 = $225 + 275 = 500$

The ratio of the total exports of cars of type A in 2016 and 2018 to the total exports of cars of type B in 2014 and 2017 = $575 : 500 = 23 : 20$

Question 90 :

A sum of Rs 18,000 becomes Rs 21,780 after 2 years on compound interest compounded annually. What will be the compound interest (in Rs) on the same sum for the same period if the rate of interest increases by 5%?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 1845
2. 5500
3. 5805
4. 4670

Solution :

The correct answer is **option 3** i.e. **5805**



Sum = Rs. 18000

Amount = Rs. 21780

Time = 2 years

$$A = P(1 + r/100)^t$$

$$I = P(1 + r/100)^t - P$$

A = amount, P = principal, r = rate, t = time, I = interest

Let the rate of interest be r.

$$21780 = 18000(1 + r/100)^2$$

$$21780/18000 = (1 + r/100)^2$$

$$1089/900 = (1 + r/100)^2$$

$$(33/30)^2 = (1 + r/100)^2$$

$$33/30 = (1 + r/100)$$

$$3300 = [(100 + r)/100]$$

$$3300 = 3000 + 30r$$

$$30r = 300$$

$$r = 300/30$$

$$r = 10\%$$

New rate = 15%

$$I = 18000(1 + 15/100)^2 - 18000$$

$$I = 18000(1 + 3/20)^2 - 18000$$

$$I = 18000[(20 + 3)/20]^2 - 18000$$

$$I = 18000[(23/20)]^2 - 18000$$

$$I = 18000 \times (529/400) - 18000$$

$$I = 23805 - 18000$$

$$I = 5805$$

Interest for the new rate = Rs. 5805

**Question 91 :**

14 men can complete a work in 15 days. If 21 men are employed, then in how many days will they complete the same work?

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

1. 14
2. 15
3. 10
4. 12

Solution :

The correct answer is **option 3** i.e. **10**

14 men can complete a work in 15 days.

$M_1 \times D_1 = M_2 \times D_2$ (Here, M_1 = People at the 1st case, D_1 = Time at the 1st case, M_2 = People at the 2nd case, D_2 = Time at the 2nd case)

According to the concept -

$$M_1 = 14$$

$$D_1 = 15$$

$$M_2 = 21$$

Let D_2 be x .

$$14 \times 15 = 21 \times x$$

$$210 = 21x$$

$$x = 210/21$$

$$x = 10$$

$$D_2 = 10 \text{ days}$$

Question 92 :

On the three numbers, second is one-third of first and is also three-fourth of the third number. If the average of three number is 112, then what is the smallest number?



Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 84
2. 45
3. 63
4. 189

Solution :

The correct answer is **option 3** i.e. **63**

Given:

Average of three numbers = 112

Concept Used:

$\text{Average} = \frac{\text{sum of elements}}{\text{no. of elements}}$

Explanation:

Total of three numbers = $112 \times 3 = 336$

Let 2nd number be $3a$.

According to the question -

$\frac{1^{\text{st}} \text{ number}}{3} = 3a$

1st number = $3a \times 3 = 9a$

3rd number $\times \frac{3}{4} = 3a$

3rd number = $3a \times \frac{4}{3} = 4a$

$9a + 3a + 4a = 336$

$16a = 336$

$a = \frac{336}{16} = 21$

Smallest among three = $3 \times 21 = 63$

Hence the smallest number is 63.

Question 93 :



The number of cars passing the road near a colony from 6 am to 12 noon has been shown in the following histogram. What is the maximum change percentage in the number of cars as compared to the previous hour?(correct to 2 decimal places)

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. Increase of 58.5%
2. Decrease of 52.63%
3. Increase of 55.56%
4. Decrease of 58.5%

Solution :

The correct answer is **option 2** i.e. **Decrease of 52.63%**

Percentage change in the number of cars between 6 AM and 7 AM = $(105 - 70)/70 \times 100\% = 50\%$

Percentage change in the number of cars between 7 AM and 8 AM = $(130 - 105)/105 \times 100\% = 23.8\%$

Percentage change in the number of cars between 8 AM and 9 AM = $(115 - 130)/130 \times 100\% = -11.54\%$

Percentage change in the number of cars between 10 AM and 11 AM = $(95 - 115)/115 \times 100\% = -17.39\%$

Percentage change in the number of cars between 11 AM and 12 PM = $(45 - 95)/95 \times 100\% = -52.63$ (Negative sign indicates percentage decrease)

The maximum change percentage in the number of cars in comparison to the previous hour is 52.63%.

Question 94 :

The following pie charts show the number of students studying different departments of an institute during the academic years 2019 and 2020. The total number of students was 2000 and 2400 in the academic years 2019 and 2020, respectively. Students studying humanities in 2019 and 2020 taken together is what percentage of the total number of students studying during the two years taken together? (correct to 2 decimal places)

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. 18.52%
2. 18.72%
3. 19.91%



19.19%

Solution :

The correct answer is **option 3** i.e. **19.91%**

Total students in 2019 = 2000

Total humanities students in 2019 = 21% of 2000 = $21(2000)/100 = 420$

Total students in 2020 = 2400

Total humanities students in 2020 = 19% of 2400 = $19(2400)/100 = 456$

Total students in the academic year 2019 and 2020 = $2000 + 2400 = 4400$

Total humanities students in 2019 and 2020 = $420 + 456 = 876$

Students studying humanities in 2019 and 2020 taken together is what percentage of the total number of students studying during the two years taken together = $876(100)/4400 = 19.91\%$

Question 95 :

If each of the two numbers 516 and 525 are divided by 6, the remainders are R₁ and R₂ respectively. What is the value of ?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. $5/6$

2. $6/5$

3. $1/6$

4. $1/5$

Solution :

The correct answer is **option 2** i.e. **$6/5$**

Two numbers 5^{16} and 5^{25} are divided by 6, the remainders are R₁ and R₂ respectively.

If a number in the form of $(x - 1)^n$ is divided by x.

Remainder = 1 if n is an even number

Remainder = $(x - 1)$ if n is an odd number

$$5^{16} = (6 - 1)^{16}$$



$$\text{Remainder} = (6 - 1)^{16}/6 = 1 \text{ i.e. } R_1$$

$$5^{25} = (6 - 1)^{25}$$

$$\text{Remainder} = (6 - 1)^{25}/6 = (6 - 1) = 5 \text{ i.e. } R_2$$

$$(R_1 + R_2)/R_2 = (1 + 5)/5 = 6/5$$

Question 96 :

Let $\triangle ABC \sim \triangle PQR$ and $(\text{Area of } \triangle ABC) : (\text{Area of } \triangle PQR) = 121 : 64$. If $PQ = 14.4\text{cm}$, $PR = 12\text{cm}$ and $AC = 18\text{cm}$, then what is the length of AB ?

Difficulty : Moderate**Average Time : 67 Seconds****Options :**

1. 19.8cm
2. 16.2cm
3. 21.6cm
4. 32.4cm

Solution :

The correct answer is **option 1** i.e. **19.8cm**

$$ABC \sim QPR \text{ and } (\text{Area of } \triangle ABC) : (\text{Area of } \triangle PQR) = 121 : 64$$

$$QP = 14.4\text{cm}, PR = 12\text{cm} \text{ and } AC = 18\text{cm}$$

The ratio of the areas of two similar triangles is equal to the ratio of the squares of the corresponding sides.

$$(\text{Area of } \triangle ABC)/(\text{Area of } \triangle QPR) = (AB/PQ)^2$$

$$(11/8)^2 = (AB/14.4)^2$$

$$11(14.4)/8 = AB$$

$$AB = 19.8 \text{ cm}$$

Question 97 :

The numbers are in the proportion of $3 : 8 : 15$ and their LCM is 8280. What is their HCF?

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



75

2. 60

3. 57

4. 69

Solution :

The correct answer is **option 4** i.e. **69**

Three numbers are in the proportion of 3 : 8 : 15.

Let the numbers be 3x, 8x, and 15x.

Here, x is their HCF.

LCM of 3x, 8x, and 15x = 120x

According to the question -

$$120x = 8280$$

$$x = 8280/120 = 69$$

Thus, the HCF of the numbers is 69.

Question 98 :

A vegetable vendor supplies vegetables to a housing complex of 50 families. On a particular day, the break up sale of vegetables is represented in the form of a pie chart as shown. Study the pie chart carefully and answer the question that follows. What is the ratio of the central angle corresponding to the sale of potatoes, tomatoes and beans together to the central angle corresponding to the combined sale of onions and others?

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

1. 13 : 15

2. 13 : 11

3. 11 : 13

4. 15 : 13

Solution :

The correct answer is **option 2** i.e. **13 : 11**



Total sales of potatoes, tomatoes, beans = $80 + 70 + 45 = 195$

Total sales of onions and others = $90 + 75 = 165$

Ratio of them = $195 : 165 = 13 : 11$

Question 99 :

In the following figure, MN is a tangent to a circle with centre O at point A. If BC is a diameter and $\angle ABC = 42^\circ$, then find the measure of $\angle MAB$.

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. 45°
2. 42°
3. 84°
4. 48°

Solution :

The correct answer is **option 4** i.e. 48°

BC is a diameter.

$$\angle ABC = 42^\circ$$

In the alternate segment theorem, the angle between a tangent and a chord is equal to the angle in the alternate segment.

The diameter makes 90° on the circumference.

According to the concept -

$$\angle BAC = 90^\circ$$

$$\angle BCA = 180^\circ - 42^\circ - 90^\circ = 48^\circ$$

$$\angle MAB = \angle BCA$$

$$\angle MAB = 48^\circ$$

Question 100 :

If $x + y + z = 7$, $xy + yz + zx = 8$, then what is the value of $x^3 + y^3 + z^3 - 3xyz$?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

175

2. 150

3. 125

4. 200

Solution :

The correct answer is **option 1** i.e. **175**

$$x + y + z = 7$$

$$xy + yz + zx = 8$$

$$a^3 + b^3 + c^3 - 3abc = (a + b + c)[(a + b + c)^3 - 3(ab + bc + ac)]$$

Putting the values in the above formula -

$$x^3 + y^3 + z^3 - 3xyz = 7(7^2 - 3 \times 8) = 7(49 - 24) = 7(25) = 175$$

Ssc Cgl Tier I Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2022-04-19 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 Logical Reasoning, 25 questions were asked from General Awareness, 25 questions were asked from Quantitative Aptitude and 25 questions were asked from English Language
4. 11 questions should have been skipped if you were short of time.

Ssc Cgl Tier I Previous Year Question Paper Topic Wise Weightage

Logical Reasoning

1. Coding Decoding - 3
2. Analogy - 2
3. Classification - 1
4. Blood Relations - 1

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

General Awareness

- 1. Current Affairs - 3
- 2. Art And Culture - 22

Quantitative Aptitude

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

English Language

- 1. Comprehensive - 1
- 2. Reading Comprehension - 4
- 3. Spotting Error - 2
- 4. Parajumbles - 1
- 5. Idioms - 2
- 6. One Word Substitution - 3

- Voice - 2
8. Parts Of Speech - 1
 9. Sentence Improvement - 3
 10. Synonym - 2
 11. Antonym - 2
 12. Filler (Grammar) - 1
 13. Incorrectly Spelt - 1
 14. Incorrectly Spelt - 1

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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- [Logical Reasoning](#)



English Language
Today In History
Syllabus
Know Your State
Know Your Country
Know Your City
Know Your Leader
Books And Authors
Daily Vocabulary
Daily Editorial
Latest Notifications
Exam Dates
Admit Card
Exam Results
Exam Cutoff
Exam Eligibility
Exam Pattern
Answer Key
Important Days



Further Guidance on Ssc Cgl Tier I Previous Year Question Paper

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About Neetu Mam

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

