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 2022-12-05 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 :
To safeguard public property and to abjure violence is a_____ in the Indian Constitution.

Difficulty : Moderate   **Average Time : 42 Seconds**

Options :

1. fundamental duty

2. social ethic

3. fundamental right

4. directive principle of state policy

Solution :
The correct answer is **Option 1** i.e. **fundamental duty.**

- Fundamental Duties were incorporated in the Indian Constitution by the 42nd amendment.
- There are 11 Fundamental Duties for Indian Citizens drafted on the lines of moral, ethical and culture code of conduct followed by people.
- The duties are educative in nature and direct the citizens to behave in a virtuous and honorable manner.

Question 2 :
Select the most appropriate option to complete the given sentence. He booked the tickets for the show _____.

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

Options :

   in demand

2. in common

3. in depth

4. in advance

Solution :

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

- The sentence talks about booking tickets for a show, which implies that the action is yet to happen in the future.
- The phrase "in advance" means doing something before it is due to happen, or ahead of time.
- "In demand" means that something is highly sought after or desired by many people, which does not make sense in the context of the given sentence.
- "In common" means sharing something with others.
- "In depth" means having a detailed understanding of something, none of which fit in the context of the given sentence.
- Therefore, the sentence would make sense if we fill in the blank with the option "in advance"

Thus, the correct sentence is:

*He booked the tickets for the show **in advance.***

Question 3 :

Select the most appropriate option that can substitute the underlined segment in the given sentence. Don't disturb the boy, he prepares for his examination.

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

Options :

1. prepared

2. is preparing

3. was preparing

4. will be preparing

Solution :

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

The correct option that can substitute the underlined segment in the given sentence is "is preparing".

- The sentence is in present continuous tense which is used to describe actions that are happening at the time of speaking or ongoing actions. So, the correct option should also be in present continuous tense.
- "Prepared" is in simple past tense which would not be correct because it indicates a completed action in the past, and the sentence is referring to an ongoing action.
- "Was preparing" is in past continuous tense which is also not correct because it indicates a completed action in the past.
- "Will be preparing" is in future continuous tense, which indicates a future ongoing action, so it is not correct either.
- "Is preparing" is the correct option in this context because it indicates the ongoing action of preparing for the examination.

Thus, the correct sentence would be:

*Don't disturb the boy, he is **preparing** for his examination.*

Question 4 :
Select the INCORRECTLY spelt word.

Difficulty : Moderate

Average Time : 84 Seconds

Options :

1. Delight
2. Striphe
3. Fright
4. Knight

Solution :
The correct answer is **Option 2** i.e., **Striphe.**

The correct spelling and meaning of the given words are:

- **Stripe**: a long, narrow band or line that is typically of a different color or texture than its surroundings.
- **Delight**: a feeling of great pleasure, satisfaction, or joy.
- **Fright:** a sudden intense feeling of fear.
- **Knight:** a person granted an honorary title of knighthood by a head of state or representative for service to the monarch, the church or the country, especially in a military capacity.

Question 5 :

Select the option that is related to the fifth letter cluster in the same way as the second letter cluster is related to the first letter cluster and the fourth letter cluster is related to the third letter cluster. GAIN: HBKP:: ACHE: BDJG:: CAKE:?

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. DBNH
2. DBMH
3. DBNG
4. DBMG

Solution :

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

The logic used here is:

GAIN: HBKP

G + 1 = H

A + 1 = B

I + 2 = K

N + 2 = P

ACHE: BDJG

A + 1 = B

C + 1 = D

H + 2 = J

E + 2 = G

Similarly,

CAKE:?

C + 1 = D

STUDY CONTENTS THAT GET YOU SELECTED

5 LAKH+ STUDENTS
Already enrolled with our selection focused courses.

30+ EXPERT INSTRUCTORS
Our instructors are the best In the industry

10000+ HOURS OF VIDEOS
All videos are well-explained for you to get every bit out of the videos

FREE PDF

A + 1 = B

K + 2 = M

E + 2 = G

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

Question 6 :

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

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

Options :

1.

2.

3.

4.
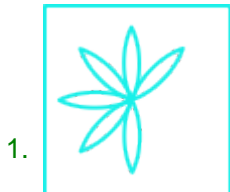
Solution :

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

The petal is moving 90 degrees and 45 degrees respectively in an anti-clockwise direction.

In each step, a new petal is added to the left side of the petal.

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

Question 7 :
By interchanging the given two signs and numbers which of the following equation will be not correct? × and ÷, 2 and 6 I. 7 − 4 × 3 ÷ 6 + 2 = 8 II. 6 − 8 × 2 + 9 ÷ 3 = 5

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

Options :
1. Only II
2. Neither I nor II
3. Only I
4. Both I and II

Solution :
The correct answer is **Option 4** i.e. **Both I and II.**

Given equation:

I. 7 − 4 × 3 ÷ 6 + 2 = 8

II. 6 − 8 × 2 + 9 ÷ 3 = 5

Given conditions: × and ÷, 2 and 6

After interchanging the expression becomes:

I. 7 − 4 × 3 ÷ 6 + 2 = 8

= 7 − 4 ÷ 3 × 2 + 6

= 10.33 is not equal to 8.

II. 6 − 8 × 2 + 9 ÷ 3 = 5

= 2 − 8 ÷ 6 + 9 × 3

= 27.66 is not equal to 5

Hence, both equations are not correct.
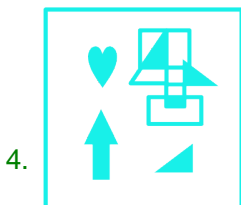
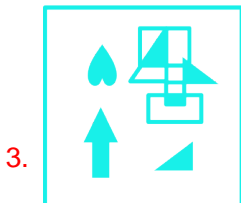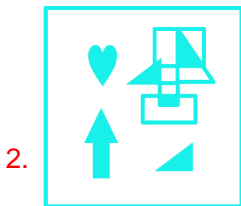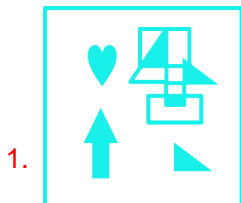Hence, **option 4** is the correct answer.

Question 8 :
Select the correct mirror image of the given figure when the mirror is placed at AB as shown.

Difficulty : Moderate

Average Time : 61 Seconds
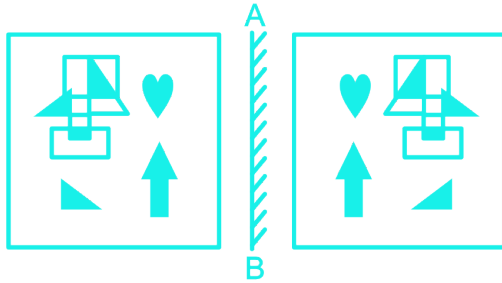
Options :

1.

2.

3.

4.

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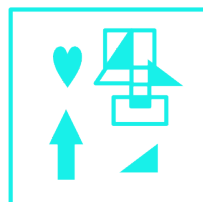
The correct answer is **Option 4** i.e. .

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 9 :
Select the set in which the numbers are related in the same way as the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed) (70, 14, 56) (88, 30, 58)

Difficulty : Moderate   **Average Time : 86 Seconds**

Options :

1. (44, 24, 23)

2. (59, 36, 25)

3. (52, 19, 33)

4. (38, 16, 24)

Solution :
The correct answer is **Option 3** i.e. **(52, 19, 33).**

The logic used here is:

(70, 14, 56)

70 - 14 = 56

(88, 30, 58)

88 - 30 = 58

Similarly,

(52, 19, 33)

52 - 19 = 33

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

Question 10 :
Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number. 8: 128:: 6: ?:: 11: 242

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. 64

2. 72

3. 68

4. 70

Solution :
The correct answer is **Option 2** i.e. **72.**

The logic used here is:

8: 128

$8^2 = 64$

64 × 2 = 128

11: 242

$11^2 = 121$

121 × 2 = 242

Similarly,

6:?

$6^2 = 36$

36 × 2 = 72

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

Question 11 :

After interchanging the given two numbers and two signs what will be the values of equations (I) and (II) respectively? – and ×, 6 and 4 I. 7 × 6 + 8 ÷ 2 – 4 II. 4 – 7 × 6 + 8 ÷ 2

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 27, 42
2. 27, 47
3. 27, 49
4. 25, 40

Solution :

The correct answer is **Option 1** i.e. **27, 42.**

Given equation:

I. 7 × 6 + 8 ÷ 2 – 4

II. 4 – 7 × 6 + 8 ÷ 2

Given conditions: – and ×, 6 and 4

After interchanging the expression becomes:

I. 7 × 6 + 8 ÷ 2 – 4

= 7 - 4 + 8 ÷ 2 × 6

= 7 - 4 + 4 × 6

= 7 - 4 + 24

= 7 + 20

= 27

II. 4 – 7 × 6 + 8 ÷ 2

= 6 × 7 - 4 + 8 ÷ 2

= 6 × 7 - 4 + 4

= 42 - 4 + 4

= 38 + 4

= 42

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

Question 12 :

In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements. Statements: I. Some F are D. II. No A is D. Conclusion: I. Some F are A. II. No D is A. III. Some F are not A.

Difficulty : Moderate   **Average Time : 73 Seconds**

Options :

1. Neither conclusion follows

2. Both conclusions II and III follows

3. Only conclusion I follows

4. Only conclusion III follows

Solution :

The correct answer is **Option 2** i.e. **Both conclusions II and III follows.**

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

Conclusions:

I. Some F are A **False** (It is possible, but no definite conclusion can be drawn.)

II. No D is A **True** (As no A is D, so the reverse no D is A is also true.)

III. Some F are not A **True** (As some F are D, and no A is D, so, some F are not A is also true.)

Hence, **Both conclusions II and III follows.**

Question 13 :

Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number. 7: 25:: 4: 4:: 3:?

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

STUDY CONTENTS THAT GET YOU SELECTED

5 LAKH+ STUDENTS
Already enrolled with our
selection focused courses.

30+ EXPERT INSTRUCTORS
Our instructors are the best
in the industry

10000+ HOURS OF VIDEOS
All videos are well-explained for you
to get every bit out of the videos

FREE PDF

Options :

1. 5

2. 4

3. 1

4. 7

Solution :

The correct answer is **Option 3** i.e. **1.**

The logic used here is:

7: 25

25 = 5

5 + 2 = 7

4: 4

4 = 2

2 + 2 = 4

Similarly,

3:?

a + 2 = 3

a = 1

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

Question 14 :
Select the option that represents the correct order of the given words as they would appear in an English dictionary. 1-Sennet 2- Sennight 3- Sennit 4- Seniority 5- Senna

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. 4, 5, 1, 2, 3

2. 5, 4, 2, 1, 3

4, 5, 2, 1, 3

4. 4, 5, 1, 3, 2

Solution :

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

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

1- Seniority

2- Senna

3- Sennet

4- Sennight

5- Sennit

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

Question 15 :
Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.) Movie: Director:: Orchestra:?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Choreographer

2. Conductor

3. Dancer

4. Audience

Solution :

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

The logic used here is:

Movie: Director

The movie is directed by a director.

Similarly,

Orchestra:?

Orchestras are led by a conductor.

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

Question 16 :
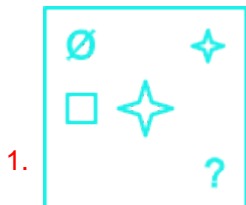Select the figure that will come next in the following figure series.

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

Options :

1.

2.

3.

4.

Solution :

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

The middle figure changes with every step. The number of sides of the figure decreases as well, (7, 6, 5, ...)

The square shifts to the extreme left end of the middle row, then the top right corner, after that top left corner, and finally at the bottom right corner.

The question mark shifts to the bottom right corner, then the extreme left of the middle row, and after that to the top right corner then finally to the top left corner.

The star shifts to the top right corner then to the top left corner, after that to the bottom right corner, and then finally at the extreme left end of the middle row.

The phi shifts to the top left corner then to the bottom right corner, and after that to the extreme left end of the middle row, and then finally at the top right corner.

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

Question 17 :
Which of the following term will replace the question mark (?) in the given series? AVTE, CTRG, ERPI, GPNK,?

Difficulty : Moderate   **Average Time : 104 Seconds**

Options :

1. INLM

2. MINL

3. ILNM

4. INJM

Solution :
The correct answer is **Option 1** i.e. **INLM.**

Given series: AVTE, CTRG, ERPI, GPNK,?

The series follows this pattern:

AVTE, CTRG

A + 2 = C

V - 2 = T

T - 2 = R

E + 2 = G

Similarly;

GPNK,?

G + 2 = I

P - 2 = N

N - 2 = L

K + 2 = M

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

Question 18 :

If A ÷ B means that A is the brother of B, A × B means that A is the sister of B, A – B means that A is the father of B. Then which of the following expression shows that P is the paternal uncle of R?

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

Options :

1. P – R ÷ Q

2. P ÷ R × Q

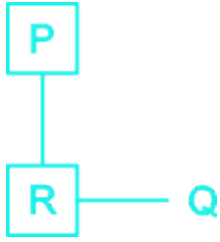3. P × R – Q

4. P ÷ R – Q

Solution :

The correct answer is **Option 4** i.e. **P ÷ R – Q.**

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.

Option1: P – R ÷ Q

STUDY CONTENTS THAT GET YOU SELECTED

5 LAKH+ STUDENTS
Already enrolled with our selection focused courses.

30+ EXPERT INSTRUCTORS
Our instructors are the best In the industry

10000+ HOURS OF VIDEOS
All videos are well-explained for you to get every bit out of the videos

FREE PDF

P — R — Q

From the above tree, P is the father of R.

Option 2: P ÷ R × Q

P — (R) — Q

From the above tree, P is the brother of R.

Option 3: P × R – Q

(P) — R — Q
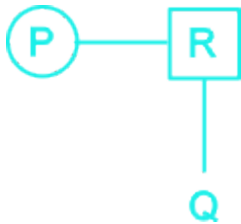
From the above tree, P is the sister of R.

Option 4: P ÷ R – Q

P — R — Q
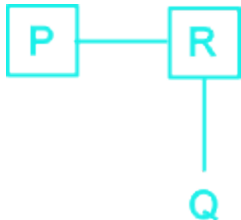
From the above tree, P is the paternal uncle of R.

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

Question 19 :

Which two numbers, from among the given options, should be interchanged to make the given equation correct? $(6)2 - 20 + (28 \div 7) - [(4) \times 8] + (2)2 = 40$

Difficulty : Moderate   **Average Time : 96 Seconds**

Options :

  6 and 8

2. 7 and 8

3. 2 and 8

4. 20 and 8

Solution :

The correct answer is **Option 1** i.e. **6 and 8.**

Given equation: $(6)^2 - 20 + (28 \div 7) - [(4) \times 8] + (2)^2 = 40$

Option 1: 6 and 8

After interchanging the expression becomes:

$= (8)^2 - 20 + (28 \div 7) - [(4) \times 6] + (2)^2 = 40$

$= 64 - 20 + 4 - 12 + 4$

$= 64 - 20 + 4 - 8$

$= 40$ is equal to 40.

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

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

Question 20 :
Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown below.

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

Options :

1. ƧU8ƎGЯOפ

2. Ƨ∪OƎƧ8פ

3. Ƨ∪OƎפЯOפ

4. Ƨ∪8ƎפЯ8פ

Solution :

The correct answer is **Option 1** i.e. ƧU8ƎGЯOפ.

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 21 :
A + B means 'A is the father of B' A – B means 'A is the mother of B' A % B means 'A is the brother of B' A # B means 'A is the daughter of B' If P + Q % R % S # T – U, then how is Q related to U?

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

Options :

1. Brother

2. Brother-in-law

3. Father

4. Son

Solution :

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

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 tree, Q is the brother of U.

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

Question 22 :
Read the given statement(s) 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 statement(s). Statements: Some ships are cups. No cup is a stool. All windows are cups. Conclusions: I. Some ships being windows is a possibility. II. No window is a stool. III. All cups are windows. IV. No ship is a stool.

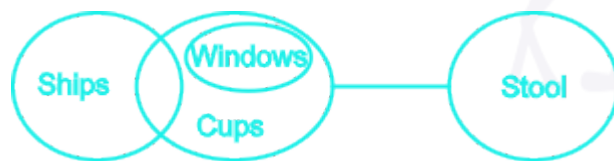**Difficulty : Moderate**   **Average Time : 70 Seconds**

Options :
1. Only Conclusions I, II and IV follow
2. Only Conclusions II and III follow
3. Only Conclusions I and II follow
4. Only Conclusion I follows

Solution :

The correct answer is **Option 3** i.e. **Only Conclusions I and II follow.**

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

Conclusions:

I. Some ships being windows is a possibility **True** (As some ships are cups, and all windows are cups, so, some ships being windows is a possibility is also true.)

II. No window is a stool **True** (As all windows are cups, and no cup is a stool, so no window is a stool.)

III. All cups are windows **False** (It is possible, but no definite conclusion can be drawn.)

IV. No ship is a stool **False** (It is possible, but no definite conclusion can be drawn.)

Hence, **Only Conclusions I and II follow.**

Question 23 :
Three different positions of the same dice are shown. Find the number on the face opposite the face showing '5'.

Difficulty : Moderate   **Average Time : 83 Seconds**

Options :
1. 2

   1

3. 6

4. 3

Solution :

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

In the second and third dice, 5 is common. So, start rotating either in a clockwise or anticlockwise direction.

Clockwise direction:

Cube 2: 5 2 3

Cube 3: 5 1 2

Anticlockwise direction:

Cube 2: 5 3 2

Cube 3: 5 1 2

Hence, the face opposite to the face showing '5' is 6.

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

Question 24 :
In a certain code language, 'CHILDREN' is written as 'FKLOGUHQ' and 'SCHOOL' is written as 'VFKRRO', how will 'CLASSROOM' be written in that language?

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

Options :

1. EMCTTTQQO

2. EMCTTURRP

3. FOEWWURRP

4. FODVVURRP

Solution :

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

The logic used here is:

'CHILDREN' is written as 'FKLOGUHQ'

C + 3 = F

H + 3 = K

I + 3 = L

L + 3 = O

D + 3 = G

R + 3 = U

E + 3 = H

N + 3 = Q

'SCHOOL' is written as 'VFKRRO'

S + 3 = V

C + 3 = F

H + 3 = K

O + 3 = R

O + 3 = R

L + 3 = O

Similarly;

Code for the word CLASSROOM:

C + 3 = F

L + 3 = O

A + 3 = D

S + 3 = V

S + 3 = V

R + 3 = U

O + 3 = R

O + 3 = R

M + 3 = P

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

Question 25 :

In the following question, select the missing number from the given series. 41, 54, 67, 80, 93,?

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

Options :

1. 106

2. 108

3. 105

4. 110

Solution :

The correct answer is **Option 1** i.e.**106.**

Given series: 41, 54, 67, 80, 93,?

The series follows this pattern:

41 +13 = 54

54 + 13 = 67

67 + 13 = 80

80 + 13 = 93

93 + 13 = 106

So, the next term in the series is **106.**

Question 26 :

In the following question, four number pairs are given. In each pair, the number on the left side of (–) is related to the number on the right side of (–) with some Logic/Rule/Relation. Three pairs are similar on the basis of the same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g.13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

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

Options :

1. 17 – 31
2. 13 – 25
3. 15 – 27
4. 9 – 15

Solution :

The correct answer is **Option 2** i.e. **13 – 25.**

The logic used here is:

Option 1: 17 – 31

17 × 2 = 34

34 - 3 = 31

This follows the logic.

Option 2: 13 – 25

13 × 2 = 26

26 - 3 = 23

This does not follow the logic.

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

Question 27 :
In a certain code language, 'INBOX' is written as 'MRYCL' and 'EMAIL' is written as 'NVZOR'. How will 'DRAFT' be written in that language?

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

Options :

1. UGZWI
2. WIZGU
3. IWZGU
4. IWGZU

Solution :

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

The logic used here is:

'INBOX' is written as 'MRYCL'
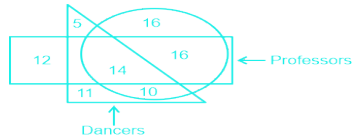
'EMAIL' is written as 'NVZOR'

Similarly;

Code for the word DRAFT:

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

Question 28 :
Three of the following four-letter clusters are alike in a certain way and one is different. Pick the odd one out.

Difficulty : Moderate   **Average Time : 59 Seconds**

Options :

1. TQR
2. MJK
3. IFG
4. NKI

Solution :

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

The logic used here is:

1st letter - 3 = 2nd letter

Page No: 25

2nd letter + 1 = 3rd letter

Option 1: TQR

T - 3 = Q

Q + 1 = R

This follows the logic.

Option 2: MJK

M - 3 = J

J + 1 = K

This follows the logic.

Option 3: IFG

I - 3 = F

F + 1 = G

This follows the logic.

Option 4: NKI

N - 3 = K

K + 1 = L

This does not follow the logic.

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

Question 29 :
Which of the following letter clusters will replace the question mark (?) and complete the following letter-cluster series? LE, OJ, UO, DT,?

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

Options :
1. PZ
2. QY
3. PX

PY

Solution :

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

Given series: LE, OJ, UO, DT,?

The series follows this pattern:

LE, OJ

L + 3 = O

E + 5 = J

OJ, UO

O + 6 = U

J + 5 = O

UO, DT

U + 9 = D

O + 5 = T

DT,?

D + 12 = P

T + 5 = Y

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

Question 30 :
Earth's core is mainly made up of _____.

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

Options :

1. nickel and copper

2. nickel and alumina

3. nickel and iron

4. nickel and magnesium

Solution :

The correct answer is **Option 3** i.e. **nickel and iron.**

- Unlike the mineral-rich crust and mantle, the core is made almost entirely of metal—specifically, iron and nickel.
- Earth's core is the furnace of the geothermal gradient.
- The shorthand used for the core's iron-nickel alloys is simply the elements' chemical symbols—NiFe.

Question 31 :

The subject of the Study of Macro Economics is based on which principle?

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

Options :

1. The principle of National Income

2. The principle of Consumer

3. The principle of Producer

4. The principle of Investment

Solution :

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

- The five principles are: economic output, economic growth, unemployment, inflation and deflation, and investment.
- Macroeconomics focuses on the performance of economies – changes in economic output, inflation, interest and foreign exchange rates, and the balance of payments.
- Poverty reduction, social equity, and sustainable growth are only possible with sound monetary and fiscal policies.

Question 32 :

Who has been appointed as new National e-Governance Division CEO in March 2022?

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

Options :

1. Nitin Chugh

2. Rajiv Kumar

3. Abhishek Singh

4. TS Ramakrishnan

Solution :

The correct answer is**Option 3** i.e. **Abhishek Singh.**

- 1995-batch IAS officers and Digital India Corporation CEO, *Abhishek Singh* as new National e-Governance Division chief.
- The 1995-batch IAS officer from Nagaland cadre held the position in the rank and pay of Additional Secretary.
- The officer carries the extra cost of the put up of Managing Director & Chief Government Officer, Digital India Company.

Question 33 :
The Durga temple at Aihole, built about _____ years ago.

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

Options :

1. 1700

2. 2000

3. 1100

4. 1400

Solution :

The correct answer is **Option 4** i.e. **1400.**

- The Durga Temple of Aihole was built in the 8th century C.E.
- Originally devoted to the Surya Bhagwan, Durga temple is the most famous and iconic temple of Aihole.
- Durga Temple at Aihole is situated near the Malaprabha River in North Karnataka in South India.

Question 34 :
According to the Brihat Samhita, what do you call the process of making scents, mouth perfumes and bath powders?

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

Options :

1. Jatuka

2. Gandhayukli

3. Kamplcica

4. Pattanga

Solution :

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

- Pattanga consists of dried heart wood of Cmsalpinia sappan Linn.
- It is a very good anti oxidant and anti inflammatory agent.
- It is scientifically proven to have hepato-protective activity.

Question 35 :
Which organic compound has the structure RCOOH, with R referring to the alkyl, alkenyl, aryl, or other group?

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

Options :

1. Carboxylic acid

2. Ester

3. Ketone

4. Aldehydes

Solution :
The correct answer is **Option 1** i.e.**Carboxylic acid.**

- Carboxylic acids are widespread in nature, often combined with other functional groups.
- Simple alkyl carboxylic acids, composed of four to ten carbon atoms, are liquids or low melting solids having very unpleasant odors.
- The fatty acids are important components of the biomolecules known as lipids, especially fats and oils. As shown in the following table, these long-chain carboxylic acids are usually referred to by their common names, which in most cases reflect their sources.

Question 36 :
Which Article of the Constitution of India authorises the President to seek the opinion of the Supreme Court in specific categories of matters?

Difficulty : Moderate   **Average Time : 56 Seconds**

Options :

1. Article 144

2. Article 145

3. Article 142

4. Article 143

Solution :

The correct answer is **Option 4** i.e. **143.**

- Article 143 of the Indian Constitution confers upon the Supreme Court advisory jurisdiction.
- The President may seek the opinion of the Supreme Court on any question of law or fact of public importance on which he thinks it expedient to obtain such an opinion.

Question 37 :

The 'flag-raising' ceremony by the Prime Minister of India on Independence Day is held at which of the following places in Delhi?

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

Options :

1. Old Fort

2. Parliament House

3. Rashtrapati Bhavan

4. Red Fort

Solution :

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

- Since 1947, every year the prime minister has hoisted the national flag at the Red Fort and sent out wishes to all Indians to mark the occasion.
- When India got Independance the country's first Prime Minister Jawaharlal Nehru celebrated the historic occasion by hoisting the national flag above the Lahori Gate cof thee Red Fort.

Question 38 :

The British Parliament transferred the powers of the East India company to the British crown in _____.

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

Options :

1. 1856

2. 1858

3. 1854

4. 1860

Solution :

The correct answer is **Option 2** i.e. **1858.**

- On 2nd August 1858 the Parliament passed a bill to take over the administration of India from the East Indian Company by the British Crown.
- The title of Viceroy was introduced for the supreme representation of the British Government in India.
- The provision of this bill called for the dissolution of the British East India Company that was ruling India under the patronage of the Parliament and transfer of that power to the British Crown.

Question 39 :

According to census 2001, sex ratio is _____ females per 1000 males.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. 943
2. 923
3. 933
4. 913

Solution :

The correct answer is **Option 3** i.e. **933**.

- As per the Census, sex ratio has increased from 933 females per thousand males in 2001 to 943 females per thousand males in 2011.
- But in India, the sex ratio is calculated by the following formula: Sex ratio=(Female Population)*1000/(Male Population)=number of females per thousand males.

Question 40 :

The Central Universities (Amendment) Bill, 2022 was passed in Lok Sabha in _____.

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. August
2. July
3. November
4. September

Solution :

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

- Central Universities (Amendment) Bill 2022 was passed in Lok Sabha on August 3, 2022.
- The Bill aims to convert the 'National Rail and Transportation Institute (NRTI)' into Gati Shakti Vishwavidyalaya (GSV).

Question 41 :

Which city is called the 'Manchester of India'?

Difficulty : Moderate

Average Time : 39 Seconds

Options :

1. Ludhiana

2. Visakhapatnam

3. Hyderabad

4. Ahmedabad

Solution :

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

- Ahmedabad is called the 'Manchester of India.' Ahmedabad is located in Gujarat on the Sabarmati River's embankment.
- Because of its similarities to the well-known cotton textile centre of Manchester, Great Britain, Ahmedabad is known as the "Manchester of India." The climate is also ideal for spinning and weaving fine thread.
- Cotton textile products from this region are in high demand both within and outside India.

Question 42 :

Which of the following is used in photography?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Sodium bicarbonate

2. Sodium thiosulphate

3. Sodium hydroxide

4. Sodium sulphate

Solution :

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

- Photographic paper and film consist of a gelatin emulsion with silver halide grains layered onto either paper or film base. The halides that are often used are chlorine, bromine and iodine, although bromine is the most common.
- SODIUM THIOSULFATE (SOE dee um thi oh SUHL feyt) is used to treat cyanide poisoning.

Question 43 :
Who among the following rulers appointed Ladha and Pira, two gardeners to high administrative post?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Khizr Khan
2. Muhammad Tughluq
3. Bahlul Lodi
4. Iltutmish

Solution :
The correct answer is **Option 2** i.e. **Muhammad Tughluq.**

- Sultan Muhammad Tughluq appointed Aziz Khummar, a wine distiller, Firuz Hajjam, a barber, Mank a Tabbakh, a cook, and two gardeners, Ladha and Pira, to high administrative posts.
- Ziyauddin Barani, a midfourteenth century-chronicler, reported their appointments as a sign of the Sultan's loss of political judgement and his incapacity to rule

Question 44 :
Pivoting is related to which of the following sports?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Hockey
2. Volleyball
3. Badminton
4. Basketball

Solution :
The correct answer is **Option 4** i.e. **Basketball.**

Pivoting in basketball is an action the ball-handler can take by rotating around on a pivot foot without picking it up.

- Basketball players are not allowed to move with the ball unless they are dribbling, so they must always keep at least one foot established on the ground when holding the ball.

Question 45 :
Who has been appointed as the country's second Chief of Defence Staff (CDS)?

Difficulty : Moderate   Average Time : 47 Seconds

Options :

1. Anil Chauhan

2. Manoj Kumar

3. R Dinesh

4. Sanjay Agarwal

Solution :
The correct answer is **Option 1** i.e. **Anil Chauhan.**

- General Anil Chauhan as the next Chief of Defence Staff (CDS).
- General Anil Chauhan succeeded his unit senior General Bipin Rawat, who died in a chopper crash in Tamil Nadu's Wellington on December 8 last year.
- General Chauhan held various important positions in the Army even after his retirement in May 2021.
- His responsibilities included military advisor to the National Security Council(NSC), Eastern Army Commander and Director General of Military Operations (DGMO).

Question 46 :
In all AIBA Boxing competitions, the rest time between each round is _____ minutes.

Difficulty : Moderate   Average Time : 54 Seconds

Options :

1. 1

2. 2

3. 3

4. 5

Solution :
The correct answer is **Option 1** i.e. **1.**

Each round shall consist of a three (3) minute duration, with a one (1) minute rest period between rounds. 2.

- The referee is the sole arbiter of a bout and is the only individual authorized to stop a contest.

Question 47 :

In honour of an Indian musician, the US state of Massachusetts proclaimed 20 April as _____ in 1984.

Difficulty : Moderate   Average Time : 41 Seconds

Options :

1. Sakhawat Hussain Day

2. Sakhawat Hussain Day

3. Amjad Ali Khan Day

4. Allauddin Khan Day

Solution :

The correct answer is **Option 3** i.e. **Amjad Ali Khan Day.**

- Massachusetts even declared April 20th as 'Amjad Ali Khan Day' in the year 1984.
- Amjad Ali Khan received international acclaim when he composed for the 'Hong Kong Philharmonic Orchestra.' It was titled 'Tribute to Hong Kong'.
- Two prominent books have been written on Ustad Amjad Ali Khan.

- The first book, 'World of Amjad Ali Khan,' was published in 1995, while the second book, 'Abba – God's greatest gift to us,' was penned by Amjad's sons, Amaan and Ayaan. This book was published in 2002.

- A documentary film has also been made on his life. It was directed by the legendary lyricist and filmmaker Gulzar. It won a Filmfare Award in 1990.

Question 48 :

Rukmini Devi Arundale is the exponent of which of the following Indian classical dance forms?

Difficulty : Moderate   Average Time : 70 Seconds

Options :

1. Bharatanatyam

2. Manipuri

3. Sattriya

4. Odissi

Page No: 36

Solution :

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

- Rukmini Devi Arundale was a reputed dancer and choreographer of Bharatnatyam, an Indian classical dance form.
- In 1956, Rukmini Devi was awarded the Padma Bhushan and in 1967, received the "Sangeet Natak Akademi Fellowship". She also featured in India Today's list of '100 People Who Shaped India'.

Question 49 :

In which group are the non-metal elements placed in a vertical column on the right side of the periodic table?

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

Options :

1. Group 1

2. Group 2

3. Group 17

4. Group 3

Solution :

The correct answer is **Option 3** i.e. **Group 17.**

- The right side of the periodic table comprises mainly non-metals in addition to some metals, metalloids, and noble gases.
- It is known as p-block elements since the outermost electrons for these elements enter the p-orbital.
- Elements of group 17 are called halogens.

Question 50 :

_____ measures the aggregate production of final goods and services taking place within the domestic economy during a year.

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

Options :

1. Gross National income

2. Gross domestic product

3. Net national product

4. National income at factor price

Solution :

The correct answer is **Option 2** i.e. **Gross domestic product.**

- Gross domestic product (GDP) is the total monetary or market value of all the finished goods and services produced within a country's borders in a specific time period.
- As a broad measure of overall domestic production, it functions as a comprehensive scorecard of a given country's economic health.

Question 51 :

Nuts, vegetable oil and fish are good source of which of the following?

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

Options :

1. Carbohydrates

2. Minerals

3. Healthy fats

4. Proteins

Solution :

The correct answer is **Option 3** i.e. **Healthy fats.**

- There are many healthful high fat foods to choose from, including avocado, dark chocolate, eggs, and fatty fish.
- Foods high in Omega-3 include fish, vegetable oils, nuts (especially walnuts), flax seeds, flaxseed oil, and leafy vegetables.

Question 52 :

In which of the following years was the Indian National Congress split into two groups named as Moderates and Extremists?

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

Options :

1. 1895

2. 1899

3. 1907

4. 1904

Solution :

The correct answer is **Option 3** i.e. **1907.**

- The Surat Split, which occurred in December 1907, was the climax of the conflict between the different nationalist factions.
- Despite Tilak and others' objections, Rash Behari Ghosh presided over the Surat Congress gathering in 1907.

Question 53 :
Who among the following contemporary style dancers was the first Indian dancer to receive the dance WEB Europe Scholarship? He/She also won the 2002 American Choreography Award for his/her work in the movie 'Lagaan'?

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

Options :
1. Terence Lewis
2. Ashley Lobo
3. Padmini Chettur
4. Shakti Mohan

Solution :

The correct answer is **Option 1** i.e. **Terence Lewis.**

- Terence Lewis is the first Indian to win the dance WEB Europe Scholarship, representing India in Vienna, Austria.
- One of the most famous dancers in India, he has worked in over 25 movies.
- He is also known as one of the judges on Dance India Dance (2009-2012).

Question 54 :
Select the most appropriate synonym of the given word. Perseverance

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

Options :
1. Discipline
2. Tolerance
3. Steadfastness
4. Humbleness

Solution :

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

The meaning of the given words is:

- **Perseverance:** persistence in doing something despite difficulty or delay in achieving success.
- **Steadfastness:** the quality of being resolutely or dutifully firm and unwavering.
- **Discipline:** the practice of training people to obey rules or a code of behaviour, using punishment to correct disobedience.
- **Tolerance:** the ability or willingness to tolerate the existence of opinions or behaviour that one dislikes or disagrees with.
- **Humbleness:** the good quality of not being proud or not believing that you are important.

*Thus, the most appropriate synonym for the given word is **Steadfastness.***

Question 55 :

Select the most appropriate ANTONYM of the given word. Native

Difficulty : Moderate   Average Time : 65 Seconds

Options :

1. Vicinity

2. Realm

3. Foreign

4. Aboriginal

Solution :

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

The meaning of the given words is:

- **Native:** a person born in a specified place or associated with a place by birth, whether subsequently resident there or not.
- **Foreign:** strange and unfamiliar.
- **Vicinity:** the area near or surrounding a particular place.
- **Realm:** a kingdom.
- **Aboriginal:** relating to the indigenous peoples of Australia or their languages.

*Thus, the most appropriate antonym for the given word is **Foreign.***

Question 56 :

Select the option that can be used as a one-word substitute for the given group of words. A person having significant

experience in an occupation

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

Options :
1. Agnostic
2. Fastidious
3. Veteran
4. Novice

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

The meaning of the given words is:

- **Veteran**: A person who has had a lot of experience in a particular field, especially in the military or in a particular sport or profession.
- **Agnostic**: A person who believes that the existence of God or a higher power cannot be known or proven.
- **Fastidious**: Someone who is very attentive to detail and very concerned about cleanliness, hygiene, and orderliness.
- **Novice**: A person who is new to a particular field or activity and has little or no experience.

*The most appropriate one word substitution for the given set of words is **Veteran.***

Question 57 :
Rearrange the parts of the sentence in correct order. Jobseekers are not P. being unemployed are a test of faith Q. self-purification, where the difficulties of R. relentlessly to a pilgrimage of S. fatalistic but reapply themselves.

Difficulty : Moderate   **Average Time : 72 Seconds**

Options :
1. SPQR
2. PQSR
3. SRQP
4. RPSQ

Solution :

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

- The opening statement of the given sentence is "Jobseekers are not".
- **Statement S** is "being unemployed are a test of faith," which restates the opening statement and reinforces the idea that unemployment is not a setback but a test of faith.
- **Statement R** "fatalistic but reapply themselves" comes next, which shows that while job seekers may feel helpless and fatalistic, they should still strive to keep moving forward and take control of their lives.
- **Statement Q** "self-purification, where the difficulties of being unemployed are a test of faith" is the first statement in the correct order, which introduces the idea that unemployment can serve as a test of faith and can be seen as a form of self-purification.
- Finally, the closing **Statement P** "relentlessly to a pilgrimage of" follows this statement, which further expands on the idea of unemployment being a test of faith and how job seekers should approach it as a journey towards achieving their goals.

Therefore, the correct sentence is:

Jobseekers are not fatalistic but reapply themselves relentlessly to a pilgrimage of self-purification, where the difficulties of being unemployed are a test of faith.

Question 58 :

Select the most appropriate meaning of the underlined idiom in the given sentence. "Just add a bit of cheese to your pasta and Bob's your uncle!" Reena suggested to me over dinner last night.

Difficulty : Moderate | **Average Time : 97 Seconds**

Options :

1. It becomes easily and quickly achievable

2. It changes the appearance

3. It ruins everything

4. It changes nothing

Solution :

The correct answer is **Option 1** i.e. **It becomes easily and quickly achievable.**

- The meaning of the given phrase, **'Bob's your uncle'** is **"and there it is"**, or **"and there you have it"**, or **"it's done".**

Thus, the most appropriate choice among the given options is **'It becomes easily and quickly achievable.'**

Question 59 :

Select the most appropriate meaning of the underlined idiom in the given sentence. When the District Attorney asked the convict about details of the day of the crime, he started beating around the bush.

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

Options :

1. Being excessively aggressive

2. Accusing others of the crime

3. Speaking in a confusing manner without giving a correct answer

4. Trying to invoke sympathy

Solution :

The correct answer is **Option 3** i.e. **Speaking in a confusing manner without giving a correct answer.**

- The meaning of the underlined idiom is **'to avoid answering a question; to stall; to waste time.'**

*Thus, the most appropriate choice among the given options is ' **Speaking in a confusing manner without giving a correct answer.'***

Question 60 :
Choose the incorrectly spelt word.

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

Options :

1. Innocense

2. Governance

3. Enforcement

4. Insufficient

Solution :
The correct answer is **Option 1** i.e.**Innocense.**

The cprrect spelling and meaning of the given words are:

- **Innocence**: The state of being free from guilt or sin; lack of knowledge or awareness about something.
- **Governance**: The action or manner of governing a state, organization, or people.
- **Enforcement**: The act of compelling observance of or compliance with a law, rule, or obligation by means of enforcing it.

Insufficient: Not enough or inadequate in amount, quantity, or degree.

Question 61 :

Select the option that expresses the given sentence in active voice. I was fascinated by the movie.

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. The movie fascinated me.

2. The movie was fascinated to me.

3. The movie fascinate me.

4. The movie fascinates me.

Solution :

The correct answer is **Option 1** i.e.**The movie fascinated me.**

Following steps should be followed to convert the given sentence into its active form:

- Identifying the subject and object of the sentence.
- Then, change the positions of the subject and object and adjusting the verb form accordingly.
- In the given sentence, the subject is "I" and the object is "the movie".
- The sentence is already in the past tense, so we just need to change it from passive to active voice.
- To do this, we need to move the subject "I" before the verb and make it the doer of the action.
- We also need to change the verb form from the past participle "fascinated" to the past simple "fascinated" to match the active voice.

Thus, the correct active form of the given sentence is:

The movie fascinated me.

Question 62 :

Identify the most appropriate ANTONYM of the underlined word in the given sentence. The patient was happy that he was given ancient methods of treatment to cure her health condition.

Difficulty : Moderate

Average Time : 84 Seconds

Options :

Multiple

2. Modern

3. Slow

4. Primitive

Solution :

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

The meaning of the given words is:

- **Ancient**: belonging to the very distant past and no longer in existence.
- **Modern**: relating to the present or recent times as opposed to the remote past.
- **Multiple**: having or involving several parts, elements, or members.
- **Slow**: taking a comparatively long time to do something or move.
- **Primitive**: belonging to a very simple or early stage in the development of humans or animals.

*Thus, the most appropriate antonym for the given word is **Modern.***

Question 63 :

Select the most appropriate ANTONYM of the given word. Consent

Difficulty : Moderate   **Average Time : 60 Seconds**

Options :

1. Dissent

2. Variety

3. Integrity

4. Sanction

Solution :

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

The meaning of the given sentence is:

- **Consent**: To give permission or agreement to do something.
- **Dissent**: To disagree or refuse to conform with an established authority or opinion.
- **Variety**: A range of different things or diverse forms of something.

Integrity: Adherence to moral and ethical principles; honesty and the quality of being truthful and trustworthy.

- **Sanction**: A penalty, restriction or approval that results from some action or behavior.

*Thus, the most appropriate antonym for the given word is **Dissent.***

Question 64 :

The following sentence has been split into four segments. Identify the segment that contains a grammatical error. I had walked / for most of the day / to Kanpur and then / get on the train by Mumbai.

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

Options :

1. I had walked

2. to Kanpur and then

3. get on the train by Mumbai

4. for most of the day

Solution :

The correct answer is **Option 3** i.e. **get on the train by Mumbai.**

- The fourth part of the given sentence is erroneous in nature.
- The error is in the use of the preposition "**by**" instead of "**to**".
- The correct preposition to use when referring to a destination is "**to**", as in "got on the train to Mumbai".
- "**By**" is used to indicate the means of transportation, as in "by train, by car, by plane", etc.

Therefore, the correct sentence would be:

I had walked for most of the day to Kanpur and then got on the train to Mumbai.

Question 65 :

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'. Have you want me to come with you to the dentist?

Difficulty : Moderate   **Average Time : 75 Seconds**

Options :

1. Has you wanted me

2. No substitution required

Had you want me

4. Do you want me

Solution :

The correct answer is **Option 4** i.e. **Do you want me.**

- The phrase "Have you want" is incorrect grammatically.
- It should be replaced with "Do you want" to make the sentence grammatically correct. It is because the given question is in the present tense.
- Therefore, the appropriate option that can substitute the underlined segment in the given sentence is "Do you want".

Thus, the corrected sentence would be:

**Do you want me** to come with you to the dentist?

Question 66 :

Select the most appropriate option to fill in the blank and complete the collocation. Although she didn't reveal her plans clearly, I had a _____ idea.

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

Options :

1. clear

2. concise

3. complete

4. rough

Solution :

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

- The sentence suggests that the speaker did not receive a detailed explanation of the plans, but still managed to form an idea about them.
- The sentence implies that the speaker's understanding of the plans is not clear or precise, but rather a rough estimation.
- "Clear" would suggest that the speaker received a detailed explanation.
- "Concise" would suggest that the explanation was brief and to the point.
- "Complete" would suggest that the speaker received all the necessary information to fully understand the plans, which contradicts the given information that the speaker's idea was rough.
- Therefore, the word that best fits the blank is "rough," which means approximate or not detailed.

Thus, the correct sentence would be:

*Although she didn't reveal her plans clearly, I had a **rough** idea.*

Question 67 :
Select the option that expresses the given sentence in passive voice. The first-year students are bidding farewell to their seniors.

Difficulty : Moderate	**Average Time : 75 Seconds**

Options :

1. Farewell is to be bid to their seniors by the first-year students.

2. Farewell was being bid to their seniors by the first-year students.

3. Farewell is being bid to their seniors by the first-year students.

4. Their seniors is being bid farewell by the first-year students.

Solution :
The correct answer is **Option 3** i.e. **Farewell is being bid to their seniors by the first-year students.**

The steps to convert the given sentence into the passive voice form are as follows:

- Identify the subject and the object of the sentence. In the given sentence, the subject is "The first-year students," and the object is "their seniors."

- Move the object of the sentence to the beginning of the sentence and make it the subject of the sentence.

- Add a form of the "be" verb (am, is, are, was, were, being, been) after the object-turned-subject.

- Use the past participle form of the main verb "bid" after the form of the "be" verb to form the passive voice. In this case, the past participle form of "bid" is "bid."

- Add the preposition "to" after the past participle form of the main verb.

- Add the original subject "The first-year students" at the end of the sentence with the preposition "by" before it.

Thus, the most appropriate passive form of the given sentence is:

Farewell is being bid to their seniors by the first-year students.

Question 68 :

Parts of the following sentence have been given as options. Select the option that contains a grammatical error. The jury was not happy with the performance / and was quite harsh. / The singer took / their criticism in heart.

Difficulty : Moderate

Average Time : 110 Seconds

Options :

1. The jury was not happy with the performance

2. The singer took

3. their criticism in heart.

4. and was quite harsh.

Solution :

The correct answer is **Option 3** i.e. **their criticism in heart.**

The error lies in 4th part of the given sentence.

The correct preposition that should be used in this sentence is "to".

As in "The singer took their criticism to heart," which means that the singer took the criticism seriously and was affected by it emotionally.

Therefore, the correct option should be:

*The jury was not happy with the performance and was quite harsh. The singer took their criticism **to** heart.*

Question 69 :

The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P. He is well aware of the role he and his people play in keeping Shivsagar Lake as beautiful and ecologically thriving. Q. However, he is also deeply aware of the fact that the urban idea of conservation often seeks to keep traditional dwellers out. R. Jason, 45, has a quiet, confident presence. S. He takes a long time to open up and even after that, he speaks little

Difficulty : Moderate

Average Time : 81 Seconds

Options :

1. RQPS

2. RSPQ

3. PSQR

4. PRSQ

Solution :

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

- **Sentence R** introduces Jason, who is a person that is aware of his role in keeping Shivsagar Lake ecologically thriving.
- **Sentence Q** follows, stating that Jason is aware that the idea of conservation in urban areas may not include traditional dwellers.
- **Sentence P** explains the role that Jason and his people play in preserving the lake.
- Finally, **sentence S** concludes the paragraph by describing Jason's quiet and reserved nature, which adds a personal touch to the paragraph.

Thus, the correct sentence would be:

Jason, 45, has a quiet, confident presence. However, he is also deeply aware of the fact that the urban idea of conservation often seeks to keep traditional dwellers out. He is well aware of the role he and his people play in keeping Shivsagar Lake as beautiful and ecologically thriving. He takes a long time to open up and even after that, he speaks little.

Question 70 :

Select the correct indirect form of the given sentence. Priya assured me, "I can stay in tonight."

Difficulty : Moderate   **Average Time : 79 Seconds**

Options :

1. Priya told me that she could stay in this night

2. Priya told me that she could stay in that night.

3. Priya told me that she could stay in tonight

4. Priya told me that she can stay in that night.

Solution :

The correct answer is **Option 2** i.e. **Priya told me that she could stay in that night.**

The following steps should e followed to convert the steps into its indirect form:

- Identify the reporting verb, which is 'assured' in this sentence.
- Remove the quotation marks and add a conjunction 'that' after the reporting verb.
- Change the tense of the verb 'can' to the corresponding past tense, which is 'could,' as the direct speech is in the present tense.
- Change the pronoun 'I' to 'she' as it refers to Priya in the indirect form.
- Rearrange the words to make the sentence grammatically correct in the indirect form.

Thus, the correct form indirect form of the given sentence is:

Priya told me that she could stay in that night.

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. Four of the most popular forms i.e. Facebook, Twitter, Snapchat and Instagram of social media (1)_____ great damage upon young people's mental health. These four platforms have a negative effect because they can (2) _____ children's and young people's body image worries, and worsen bullying, sleep problems, anxiety, depression and loneliness. The findings follow growing (3) _____ among politicians, health bodies, doctors and parents about young people suffering harm as a result of cyber bullying and social media (4)_____ feelings of self-loathing and leading them to commit suicide. However, the leader of the UK's psychiatrists said these findings were too simplistic and they (5)_____ blamed social media for the complex reasons why the mental health of so many young people is suffering.

Question 71 :

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

Difficulty : Moderate   **Average Time : 117 Seconds**

Options :

  1. inflict

  2. impious

  3. perpetrating

  4. discrete

Solution :

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

The meaning of the given words is:

- **Inflict**: to cause someone to experience something unpleasant or harmful
- **Impious**: lacking respect or reverence for a god, religious practices, or sacred things
- **Perpetrating**: to carry out or commit (a harmful, illegal, or immoral action)
- **Discrete**: separate, distinct, or unconnected.
- Thus, the most appropriate filler for the given blank is **inflict.**

Therefore, the correct sentence would be:

*Four of the most popular forms i.e. Facebook, Twitter, Snapchat and Instagram of social media **inflict** great damage upon young people's mental health.*

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. Four of the most popular forms i.e. Facebook, Twitter, Snapchat and Instagram of social media (1)_____ great damage upon young people's mental health. These four platforms have a negative effect because they can (2) _____ children's and young people's body image worries, and worsen bullying, sleep problems, anxiety, depression and loneliness. The findings follow growing (3) _____ among politicians, health bodies, doctors and parents about young people suffering harm as a result of cyber bullying and social media (4)_____ feelings of self-loathing and leading them to commit suicide. However, the leader of the UK's psychiatrists said these findings were too simplistic and they (5)_____ blamed social media for the complex reasons why the mental health of so many young people is suffering.

Question 72 :
Select the most appropriate option to fill in blank number 2.

Difficulty : Moderate   **Average Time : 103 Seconds**

Options :

1. mitigate

2. effectuate

3. exacerbate

4. alleviate

Solution :

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

The meaning of the given words is:

- **Exacerbate**: to make a problem, bad situation, or negative feeling worse or more severe.
- **Mitigate**: to make something less severe, harmful, or painful.
- **Effectuate**: to cause something to happen; to make something into a reality or bring it into effect.
- **Alleviate**: to make a problem, pain, or suffering less severe or easier to bear.
- Thus, the most appropriate filler for the given blank is **exacerbate.**

Therefore, the correct sentence is:

*These four platforms have a negative effect because they can **exacerbate** children's and young people's body image worries, and worsen bullying, sleep problems, anxiety, depression and loneliness.*

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. Four of the most popular forms i.e. Facebook, Twitter, Snapchat and Instagram of social media (1)_____ great damage upon young people's mental health. These four platforms have a negative effect because they can (2) _____ children's and young people's body image worries, and worsen bullying, sleep problems, anxiety, depression and loneliness. The findings follow growing (3) _____ among politicians, health bodies, doctors and parents about young people suffering harm as a result of cyber bullying and social media (4)_____ feelings of self-loathing and leading them to commit suicide. However, the leader of the UK's psychiatrists said these findings were too simplistic and they (5)_____ blamed social media for the complex reasons why the mental health of so many young people is suffering.

Question 73 :
Select the most appropriate option to fill in blank number 3

Difficulty : Moderate   **Average Time : 108 Seconds**

Options :
1. concern
2. consternate
3. bridle
4. poise

Solution :
The correct answer is **Option 1** i.e. **concern.**

The meaning of the given words is:

- **Concern**: worry or anxiety about something
- **Consternate**: to cause someone to feel anxious or dismayed
- **Bridle**: to control or restrain something, particularly by using a bridle on a horse
- **Poise**: a state of balance, composure, or self-assurance
- Thus, the most appropriate filler for the given blank is **concern.**

Therefore, the most appropriate sentence would be:

*The findings follow growing **concern** among politicians, health bodies, doctors and parents about young people suffering harm as a result of cyber bullying and social media...*

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. Four of the most popular forms i.e. Facebook, Twitter, Snapchat and Instagram of social media (1)_____ great damage upon young people's mental health. These four platforms have a negative effect because they

can (2) _____ children's and young people's body image worries, and worsen bullying, sleep problems, anxiety, depression and loneliness. The findings follow growing (3) _____ among politicians, health bodies, doctors and parents about young people suffering harm as a result of cyber bullying and social media (4)_____ feelings of self-loathing and leading them to commit suicide. However, the leader of the UK's psychiatrists said these findings were too simplistic and they (5)_____ blamed social media for the complex reasons why the mental health of so many young people is suffering.

Question 74 :
Select the most appropriate option to fill in blank number 4

Difficulty : Moderate   **Average Time : 103 Seconds**

Options :

1. reinforcing

2. accentuate

3. augment

4. ebbing

Solution :
The correct answer is **Option 1** i.e. **reinforcing.**

The meaning of the given words is:

- **Reinforcing**: Making something stronger or more solid.
- **Accentuate**: Emphasizing or highlighting something, making it more noticeable.
- **Augment**: Increasing the size, amount, or value of something.
- **Ebbing**: Gradually becoming less or weaker; declining.
- Thus, the most appropriate filler for the given blank is **reinforcing.**

Therefore, the correct sentence is:

*... young people suffering harm as a result of cyber bullying and social media **reinforcing** feelings of self-loathing and leading them to commit suicide.*

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. Four of the most popular forms i.e. Facebook, Twitter, Snapchat and Instagram of social media (1)_____ great damage upon young people's mental health. These four platforms have a negative effect because they can (2) _____ children's and young people's body image worries, and worsen bullying, sleep problems, anxiety, depression and loneliness. The findings follow growing (3) _____ among politicians, health bodies, doctors and

parents about young people suffering harm as a result of cyber bullying and social media (4)_____ feelings of self-loathing and leading them to commit suicide. However, the leader of the UK's psychiatrists said these findings were too simplistic and they (5)_____ blamed social media for the complex reasons why the mental health of so many young people is suffering.

Question 75 :
Select the most appropriate option to fill in blank number 5.

Difficulty : Moderate   **Average Time : 100 Seconds**

Options :
1. legitimately
2. impartially
3. unfairly
4. outlandish

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

The meaning of the given words is:

- **Unfairly**: in a manner that is not just or equitable, characterized by injustice, bias or favoritism.
- **Legitimately**: in a manner that is authorized, genuine, or in accordance with the law.
- **Impartially**: in a manner that is unbiased, just, or fair, without favoritism or discrimination.
- **Outlandish**: in a manner that is bizarre, unconventional, or peculiar, especially in a way that is striking or alarming.
- Thus, the most approrpriate filler for the given blank is unfairly.

Therefore, the correct sentence would be:

*However, the leader of the UK's psychiatrists said these findings were too simplistic and they **unfairly** blamed social media for the complex reasons why the mental health of so many young people is suffering.*

Question 76 :
Find the number of common tangents, if $r_1 + r_2 = C_1C_2$.(With usual notations, r_1 & r_2 and C_1 & C_2 are the radii and centres of the two circles.)

Difficulty : Moderate   **Average Time : 79 Seconds**
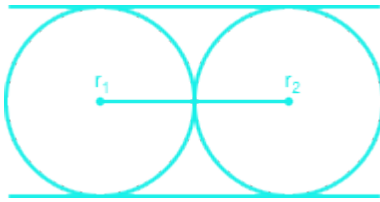
Options :
1. 1

$\quad$ 0

3. 3

4. 4

Solution :

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

Calculations:

As given in the figure, if $r_1 + r_2 = C_1C_2$

the two circles touches each other only at one point.

Hence, we can see from the figure that there are 3 common tangents.

Question 77 :

Which of the following pairs of non-zero values of p and q make 6-digit number 674pq0 divisible by both 3 and 11?

Difficulty : Moderate$\qquad$**Average Time : 51 Seconds**

Options :

1. p = 2 and q = 2

2. p = 5 and q = 4

3. p = 4 and q = 2

4. p = 5 and q = 2

Solution :

The correct answer is **Option 4** i.e.**p = 5 and q = 2.**

Concept used:

Divisibility rule of 3: a number is completely divisible by 3 if the sum of its digits is divisible by 3

Divisibility rule of 11: the given number can only be completely divided by 11 if the difference of the sum of digits at odd position and sum of digits at even position in a number is 0 or 11

Calculations:

By option method:

Taking option (4), we have p = 5 and q = 2

Hence sum of digits = 6 + 7 + 4 + 5 + 2 + 0 = 24

24 is divisible by 3

Now, for 11 we have: 6 + 4 + 2 - (7 + 5 + 0) = 0

Required difference = 0

Therefore, the value of p = 5 and q = 2

Question 78 :
A policeman saw a thief from a distance of 450 m. When the policeman started chasing him, the thief also started running. The ratio of speeds of the thief to the policeman is 7 : 8. After running how much distance (in km) can the policeman catch the thief?

Difficulty : Moderate   **Average Time : 73 Seconds**

Options :
1. 3.75

2. 3.4

3. 3.6

4. 3.15

Solution :
The correct answer is **Option 3** i.e. **3.6.**

Concept used:

Relative speed = x - y, when two objects are running in the same direction.

Calculations:

Let the speed of policeman and theif be 8x and 7x

Relative speed = 8x - 7x = x

Time taken to catch the theif = 450/x

Distance travelled by the policman = 8x × (450/x) = 3600 m or 3.6 km

Question 79 :

The length of the side of a cube is 5.6 cm. What is the volume of the largest sphere that can be taken out of the cube?

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

Options :

1. 91.98 cm^3

2. 99.96 cm^3

3. 96.98 cm^3

4. 90.69 cm^3

Solution :

The correct answer is **Option 1** i.e. **91.98 cm^3**

Given:

Side of cube = 5.6 cm

Formula used:

Volume of sphere = $(4/3)r^3$ ---- (1)

Calculations:

Radius of the largest sphere that fits in the cube = 5.6/2 = 2.8

Using equation (1), we get

 (4/3) × (22/7) × 2.8 × 2.8 × 2.8

 91.98 cm^3

Question 80 :

The curved surface area of the sphere is 154 cm2 . Find the volume of the sphere (rounded off to one digit after decimal).

Difficulty : Moderate   **Average Time : 56 Seconds**

Options :

1. 156.9 cm^3

2. 179.7 cm^3

3. 161.1 cm^3

147.8 cm^3

Solution :

The correct answer is **Option 2** i.e. **179.7 cm^3**

Formula used:

Curved surface area of sphere = $4r^2$ ----- (1)

Volume of sphere = $(4/3)r^3$ ---- (2)

Calculations:

Using equation (1), we get

$4 \times (22/7) \times r^2 = 154$

$r^2 = 49/4$

$r = 7/2$

Using equation (2),

Volume of sphere = $(4/3) \times (22/7) \times (7/2) \times (7/2) \times (7/2) = 179.7 \text{ cm}^3$

Question 81 :
If X + (1/x) = -14, and X -1, what is the value of x2 - (1/x2)?

Difficulty : Moderate   **Average Time : 60 Seconds**

Options :

1. -112 3

2. 112 3

3. --140 2

4. 140 2

Solution :

The correct answer is **Option 2** i.e. 112 3

Formula used:

$(a + b)(a - b) = a^2 - b^2$ ---- (1)

Calculations:

x + 1/x = -14

Squaring both sides, we get

$x^2 + 1/x^2 + 2 = 196$

$x^2 + 1/x^2 = 194$

Now, $(x - 1/x)^2 = x^2 + 1/x^2 - 2 = 192$

$(x - 1/x) = -83$ as x -1

Using equation (1), we get

$x^2 - 1/x^2 = (-14)(-83) = 1123$

Question 82 :
Study the given table and answer the question that follows. The table shows the number of donuts sold by three different stores in five different months. What is the ratio of the total number of donuts sold by stores P and R together in October to the total number of donuts sold by stores Q and R together in the same month?

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

Options :
1. 353 : 217
2. 217 : 373
3. 373 : 217
4. 217 : 353

Solution :
The correct answer is **Option 2** i.e. **217 : 373.**

Calculations:

Total number of donuts sold by stores P and R together in October = 125 + 960 = 1085

Total number of donuts sold by stores Q and R together in the same month = 905 + 960 = 1865

Required ratio = 1085 : 1865 = 217 : 373

Question 83 :
0.5 is what percentage of 20?

Difficulty : Moderate   **Average Time : 38 Seconds**

Options :

1. 1. 25%
2. 0. 25%
3. 2.5%
4. 0.025%

Solution :

The correct answer is **Option 3** i.e. **2.5%.**

Calculations:

Required percentage = (0.5/20) × 100 = 2.5%

Question 84 :

In triangle ABC, AD is the angle bisector of angle A. If AB = 8.4 cm and AC = 5.6 cm and DC = 2.8 cm, then the length of side BC will be:

Difficulty : Moderate   **Average Time : 37 Seconds**

Options :

1. 4.2 cm
2. 5.6 cm
3. 7 cm
4. 2.8 cm

Solution :

The correct answer is **Option 3** i.e. **7 cm.**

Concept used:

Angle bisector theorem : The angle bisector of a triangle bisects the opposite side in such a way that the ratio of the two line segments is proportional to the ratio of the other two sides.

Calculations:

BC = BD + DC

In triangle ABC,

AB/BD = AC/DC

8.4/BD = 5.6/2.8

BD = 4.2

Hence, BC = 4.2 + 2.8 = 7 cm

Question 85 :

A hotel is giving a discount of 12% on the booking of 2 or more rooms. Additionally, the hotel is offering a 5% discount only on payment using any card of SBI. Rakesh booked 2 rooms in the hotel for a day at the rate of Rs.1,500 per room per day. While checking out, he paid the bill using SBI Silver Card. How much amount did he have to pay?

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

Options :

1. Rs.2,498
2. Rs.1,254
3. Rs.2,508
4. Rs.2,618

Solution :

The correct answer is **Option 3** i.e. **Rs.2,508.**

Calculations:

Marked price of one room = 1500

Rate of two rooms = 3000

Discounted rate after booking 2 rooms = 3000 × 88% = 2640

Discounted rate by making the payment through SBI silver card = 95% of 2640 = 2508

Hence, the amount paid = Rs 2508

Question 86 :

R jogs at twice the speed of walking and runs at twice the speed of jogging. From his home to office, he covers half of the distance by walking and the rest by jogging. From his office to home, he covers half the distance jogging and the rest by running. What is his average speed (in km/h) in a complete round from his home to office and back home if the distance between his office and home is 10 km and he walks at the speed of 5 km/h?

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

Options :

90/8

2. 60/8

3. 60/9

4. 80/9

Solution :

The correct answer is **Option 4** i.e. **80/9.**

Given:

Speed of walking = 5 km/h

Speed of jogging = Twice the speed of walking

Speed of running = twice the speed of jogging

Total distance from home to office = 10 km

Formula used:

Average speed = total distance/total time

Calculations:

Speed of jogging = 10 km/h

Speed of running = 20 km/h

Total distance = 10 + 10 = 20 km

Time taken from home to office = half distance by walking + half distance by jogging

5/5 + 5/10 = 3/2

Time taken from office to home = half distance by jogging + half distance by running

5/10 + 5/20 = 3/4

Total time = 3/2 + 3/4 = 9/4

Average speed = 20/(9/4) = 80/9

Question 87 :
The ratio of the present ages of Ram and Ramesh is 3 : 5. After 7 years the ratio of their ages will be 4 : 5. Find the present age of Ramesh.

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. 5 years

2. 15 years

3. 7 years

4. 12 years

Solution :

The correct answer is **Option 3** i.e. **7 years.**

Calculations:

Let the present ages of ram and ramesh be 3x and 5x

According to the question;

$(3x + 7)/(5x + 7) = 4/5$

$x = 7/5$

Present age of ramesh = $5x = 5 × 7/5 = 7$ years

Question 88 :

If $k^4 + (1/k^4) = 47$, then what is the value of $k^3 + (1/k^3)$?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. 4.5

2. 54

3. 18

4. 9

Solution :

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

Formula used:

$(a + b)^2 = a^2 + b^2 + 2ab$ ---- (1)

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

Calculations:

$(k^2 + 1/k^2)^2 = 47 + 2 = 49$

$(k^2 + 1/k^2) = 7$

Now, $(k + 1/k)^2 = 7 + 2 = 9$

$(k + 1/k) = 3$

using equation (2), we get

$3^3 = k^3 + 1/k^3 + 3 \times 3$

$k^3 + 1/k^3 = 27 - 9 = 18$

Question 89 :
Ram sold a plot for Rs.4,00,000 at a 20% loss. For what price should he sell the plot to gain a 5% profit?

Difficulty : Moderate   Average Time : 68 Seconds

Options :
1. Rs.5,25,000

2. Rs.5,20,000

3. Rs.5,00,000

4. Rs.5,05,000

Solution :
The correct answer is **Option 1** i.e. **Rs.5,25,000.**

Calculations:

Let the cost price be 100x

After a loss of 20%, Selling price = 80% of 100x = 80x

According to the question;

$80x = 400000$

$x = 5000$

Cost price = 100x = 500000

Selling price if the profit is 5% = 105% of 500000 = Rs 525000

Question 90 :

The HCF of two numbers 110 and 1980 is:

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

Options :
1. 140
2. 110
3. 120
4. 180

Solution :

The correct answer is **Option 2** i.e. **110.**

Calculations:

Factors of 110 = 2 × 5 × 11

Factors of 1980 = 2^2 × 3^2 × 11 × 5

Highest common factor of 110 and 1980 = 2 × 5 × 11 = 110

Question 91 :

The simplified form of (x+2y)3 + (x-2y)3 is :

Difficulty : Moderate   **Average Time : 39 Seconds**

Options :
1. $2x^3 + 24xy^2$
2. $2x^3 - 24xy^2$
3. $X^3 - 8y^3$
4. $X^3 + 8y^3$

Solution :

The correct answer is **Option 1** i.e. **$2x^3 + 24xy^2$**

Formula used:

$(x + y)^3 = x^3 + y^3 + 3xy(x + y)$ ---- (1)

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

Calculations:

$(x + 2y)^3 + (x - 2y)^3$

Using equation (1) and (2)

$x^3 + 8y^3 + 6xy(x + 2y) + x^3 - 8y^3 - 6xy(x - 2y)$

$x^3 + 8y^3 + 6x^2y + 12xy^2 + x^3 - 8y^3 - 6x^2y + 12xy^2$

$2x^3 + 24xy^2$

Question 92 :

In how much time will a sum of Rs. 5250 amounts to Rs. 9870 at the rate of 11 percent per annum at simple interest?

Difficulty : Moderate   **Average Time : 103 Seconds**

Options :

1. 8 years

2. 14 years

3. 12 years

4. 15 years

Solution :

The correct answer is **Option 1** i.e. **8 years.**

Given:

Principal = 5250

Amount = 9870

Rate = 11%

Formula used:

SI = PRT/100 ----- (1)

SI = Amount - Principal

Where, P = principal, R = rate and T = time

Calculations:

SI = 9870 - 5250 = 4620

Using equation (1), we get

4620 = (5250 × 11 × T)/100

T = 8 years

Question 93 :
The table given below shows the production of bike and truck by five companies. What is the ratio of the production of truck by company H and I together to the production bike by company J and K together?

Difficulty : Moderate   **Average Time : 58 Seconds**

Options :
   1. 14 : 17
   2. 15 : 14
   3. 14 : 19
   4. 14 : 15

Solution :
The correct answer is **Option 4** i.e. **14 : 15.**

Calculations:

The production of truck by company H and I together = 300 + 400 = 700

The production bike by company J and K together = 350 + 400 = 750

Required ratio = 700 : 750 = 14 : 15

Question 94 :
If sin q + cos q = (rac{(âˆš3-1)}{(2âˆš2)}) then what is the value of tan q + cotq ?

Difficulty : Moderate   **Average Time : 39 Seconds**

Options :
   1. 8(3 - 2)
   2. 12(3-2)

Page No: 68

$12(\sqrt{3}+\sqrt{2})$

4. $8(\sqrt{3}+\sqrt{2})$

Solution :
The correct answer is **Option 1** i.e. **8(√3-√2).**

Calculations:

$\tan\theta + \cot\theta = 1/(\sin\theta.\cos\theta)$ ---- (1)

$(\sin\theta + \cos\theta) = ((\sqrt{3} - 1)/2\sqrt{2})$

Squaring on both sides we get

$1 + 2\sin\theta.\cos\theta = (4 - 2\sqrt{3})/8$

$\sin\theta.\cos\theta = - (4 + 2\sqrt{3})/16$

Now using the value of sin.cos in equation (1)

$(16/-(4 + 2\sqrt{3}))$

Rationalising the denominator, we get

$16(2\sqrt{3} - 4)/4 = 8(\sqrt{3} - 2)$

Question 95 :
In triangle ABC, the bisector of angle BAC cuts the side BC at D. If AB = 10 cm, and AC = 14 cm then what is BD : BC ?

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

Options :
1. 5 : 3
2. 7 : 5
3. 5 : 2
4. 5 : 7

Solution :
The correct answer is **Option 4** i.e. **5 : 7.**

Concept used:

Angle bisector theorem: The angle bisector of a triangle bisects the opposite side in such a way that the ratio of the two

STUDY CONTENTS THAT GET YOU SELECTED

5 LAKH+ STUDENTS
Already enrolled with our
selection focused courses.

30+ EXPERT INSTRUCTORS
Our instructors are the best
In the industry

10000+ HOURS OF VIDEOS
All videos are well-explained for you
to get every bit out of the videos

FREE PDF

line segments is proportional to the ratio of the other two sides

Calculations:

In triangle ABC, AD is the angle bisector

Using the above concept;

AB/AC = BD/BC

BD/BC = 10/14 = 5/7

Hence, the required ratio = 5 : 7

Question 96 :
If sin = 8/17, then find the value of tan.

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

Options :

1. 15/17

2. 8/15

3. 15/8

4. 17/15

Solution :
The correct answer is **Option 2** i.e. **8/15.**

Calculations:

sin = 8/17, where Perpendicular = 8 units and hypotenuse = 17 units

Using pythagoras theorem,

$17^2 - 8^2 = Base^2$

$Base^2 = 225$

Base = 15 units

We know tan = Perpendicular/base

8/15

Question 97 :

If sec 2 = cosec (− 36°), where 2 is an acute angle, find the value of .

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 32°
2. 46°
3. 20°
4. 42°

Solution :

The correct answer is **Option 4** i.e. **42°.**

Formula used:

If A + B = 90 then

sec A = cosec B   ---- (1)

Calculations:

Using equation (1), we get

A = 2 and B = - 26

2 + - 36 = 90

3 = 126

 = 42°

Question 98 :

The given pie -chart shows the total number of children who opted different courses in a summer camp in may 2019. 300 students attanded the summer camp, and every child was allowed to opt only one activity for the camp. The total number of students who opted for Yoga and Painting taken together is how much less than the total number of children who opted for Music and Dance taken together?

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. 35
2. 45

30

4. 40

Solution :

The correct answer is **Option 3** i.e. **30.**

Calculations:

The total number of students who opted for Yoga and Painting taken together = 300 × (18 + 12)%

30% of 300 = 90

The total number of children who opted for Music and Dance taken together = 300 × (24 + 16)%

40% of 300 = 120

Required difference = 120 - 90 = 30

Question 99 :
The following table shows the amount of annual rainfall in inches in 8 different states of India. How many states have witnessed an increase in the amount of annual rainfall continuously for two times in immediate years?

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

Options :

1. 4

2. 5

3. 3

4. 6

Solution :

The correct answer is **Option 2** i.e. **5.**

Calculations:

States have witnessed an increase in the amount of annual rainfall continuously for two times in immediate years:

State T = Years (2015 - 2017)

State A = Years (2018 - 2020)

State M = Years (2018 - 2020)

State K = Years (2019 - 2021)

State R = Years (2016 - 2018)

Hence, there are total of 5 states.

Question 100 :
In 4/5 time, Naman can do half work of Gagan. When both of them are working together, then complete the entire work in 16 days. Find out the time taken by Gagan to complete the whole work alone.

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

Options :

1. 23 days

2. 24 days

3. 25 days

4. 26 days

Solution :
The correct answer is **Option 4** i.e. **26** days

Concept used:

Total work = Efficiency × time

Calculations:

Let the efficiency of naman and gagan ne N and G.

According to the question;

(N × 4)/1 = (G × 5)/2

N/G = 5/8

Total work = 16 × 13 units

Time taken by gagan = (16 × 13)/8 = 26 days

Ssc Cgl Tier I Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2022-12-05 in the Morning exam is as follows:

100 questions were moderate.
2. The safe score is 140 marks.
3. 25 questions were asked from General Awareness, 25 questions were asked from English Language, 25 questions were asked from Logical Reasoning and 25 questions were asked from Quantitative Aptitude
4. 26 questions should have been skipped if you were short of time.

Ssc Cgl Tier I Previous Year Question Paper Topic Wise Weightage

General Awareness

1. GK Misc - 25

English Language

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

Logical Reasoning

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

Dictionary Based - 1

7. Figure Based - 2
8. Series - 3
9. Mathematical Reasoning - 3
10. Cubes And Dice - 1
11. Seating Arrangement And Puzzle - 2

Quantitative Aptitude

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

Ssc Cgl Tier I Previous Year Question Paper Tips and Tricks

TIPS & TRICKS

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.

Daily Current Affairs

KD Live is providing Current Affairs on a daily basis for SSC and a Current Affairs Quiz too for the practice.

KD Live Free Offerings

KD Live is Offering Every Information and Study Material required for the self study. Please click on the following links for

accessing those.

Further Guidance on Ssc Cgl Tier I Previous Year Question Paper

For Asking any query on Ssc Cgl Tier I Previous Year Question Paper please mail Send Email or you can fill the form at KD Live.

About KD Live

KD live has an expertise in providing apt explanations for the Ssc Cgl Tier I Previous Year Question Paper since 2008. More than 10 lakh aspirants have cleared competitive exams under the guidance of Neetu Mam. Study.kdcampus.live is providing free information on various topics and for the Ssc Cgl Exam you can refer the following link Click Here however if you want to practice more questions then please refer the following link Click Here.

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.