



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 2022-12-01 in the Noon 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 :

Three different positions of the same dice are shown. Find the number on the face opposite the face showing '2'.

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. 4

2. 5

3. 1

4. 3

Solution :

The correct answer is **option 1** i.e. **4**.

In the first and third dice, 1 and 5 are common. So, the remaining face will be opposite to each other. Hence, 2 is opposite to 4.

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

Question 2 :

"Indira Gandhi Shehri Rozgar Guarantee Yojana 2022' has been implemented by which state government?

Difficulty : Moderate

Average Time : 40 Seconds

Options :

Rajasthan

2. Himachal Pradesh
3. Maharashtra
4. Uttar Pradesh

Solution :

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

- Rajasthan Chief Minister Ashok Gehlot launched the 'Indira Gandhi Shehri Rozgar Guarantee Yojana' in the 2022-23 State Budget.
- Employment will be provided for up to 100 days in a year, and the state will bear an expense of Rs 800 crore.

Question 3 :

Choose the correct pair from the following options.

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. Third Five-year Plan – Rapid industrialisation and basic industries
2. Fourth Five-year Plan - Family planning programme
3. First Five-year Plan – Mahalanobis model
4. Second Five-year Plan – Focus on agriculture

Solution :

The correct answer is **Option 2** i.e. **Fourth Five-year Plan - Family planning programme**.

- The Fourth Five Year Plan (1969-1974): Viewed population not only from the point of view of economic development, but also from that of social change.
- "Under Indian conditions, the quest for equality and dignity of man requires as its basis both a high rate of economic growth and a low rate of population increase.
- Even far reaching changes in social and economic fields will not lead to a better life unless population growth is controlled. The limitation of family is an essential and inescapable ingredient of development."

Question 4 :

Fundamental Duties were added in the Constitution of India under the leadership of which Prime Minister of India?

Difficulty : Moderate

Average Time : 66 Seconds

Options :



Narsimha Rao

2. Charan Singh

3. Indira Gandhi

4. Lal Bahadur Shastri

Solution :

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

- The fundamental duties were incorporated in Part IV-A of the Constitution by The Constitution (42nd Amendment) Act, 1976, during Indira Gandhi's Emergency.
- Article 51(A) describes 11 fundamental duties — 10 came with the 42nd Amendment; the 11th was added by the 86th Amendment in 2002, when Atal Bihari Vajpayee was Prime Minister.

Question 5 :

Which of the following festivals is celebrated in the month of August–September?

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Makar Sankranti
2. Kite Festival
3. Bikaner Festival
4. Onam

Solution :

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

- The celebrations of Onam start on Atham day (the day when Atham Nakshatra prevails) and continue for 10 days till Thiruvonam day, also the most auspicious day during the festival of Onam.
- Atham Nakshatra is known as Hasta Nakshatra in other Hindu calendars.

Question 6 :

In a certain code language, 'CYTOSKELETON' is written as 'TYCKSOELENOT', 'MALNUTRITION' is written as 'LAMTUNTIRNOI'. How will 'ALLITERATION' be written in that language?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

LLAETITARNOI

2. LLAETIATRNOI

3. LLEATITARNOI

4. LLAETITRANOI

Solution :

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

The logic used here is:

'CYTOSKELETON' is written as 'TYCKSOELENOT'



'MALNUTRITION' is written as 'LAMTUNTIRNOI'



Similarly;

Code for the word ALLITERATION:



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

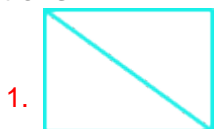
Question 7 :

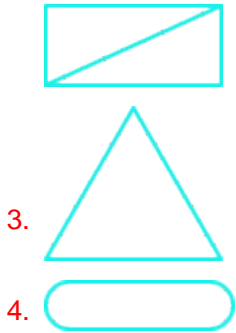
Select the options figure which is embedded in the given figure. (Rotation is not allowed)

Difficulty : Moderate

Average Time : 64 Seconds

Options :





Solution :

The correct answer is **option 2**

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



Question 8 :

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. GAVE: AGEV:: KEPT: EKTP:: ACID:?

Difficulty : Moderate

Average Time : 87 Seconds

Options :

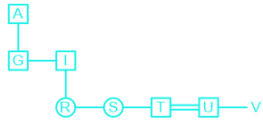
- 1. CIAD
- 2. CAID
- 3. ACDI
- 4. CADI

Solution :

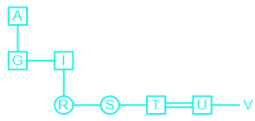
The correct answer is **option 4** i.e. **ACDI**.

The logic used here is:

GAVE: AGEV



KEPT: EKTP



Similarly,

ACID:??



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

Question 9 :

If '+' means '÷', '-' means '+', 'x' means '-' and '÷' means 'x', what will be the value of the following expression? $\{[(38 \times 23) - (4 \div 3)] + (6 - 3)\} \div 2$

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. 6
2. 3
3. 8
4. 12

Solution :

The correct answer is **option 1** i.e **6**.

Given equation: $\{[(38 \times 23) - (4 \div 3)] + (6 - 3)\} \div 2$

Given conditions:



'+' means '÷'

'-' means '+'

'x' means '-'

'÷' means 'x'

After interchanging the expression becomes:

$$= \{[(38 - 23) + (4 \times 3)] \div (6 + 3)\} \times 2$$

$$= \{[15 + 12] \div 9\} \times 2$$

$$= [27 \div 9] \times 2$$

$$= 3 \times 2$$

$$= 6$$

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

Hence, **option 1** 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. 12: 16:: 18:? :: 24: 64

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. 26

2. 32

3. 28

4. 36

Solution :

The correct answer is **option 4** i.e. **36**.

The logic used here is:

$$12: 16$$

$$16 \times 3 = 4 \times 3 = 12$$

24: 64

$$64 \times 3 = 8 \times 3 = 24$$

Similarly,

18:?

$$a \times 3 = 18$$

$$a = 6$$

$$a = 36$$

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

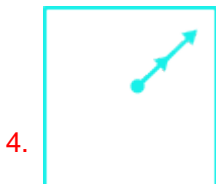
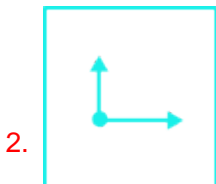
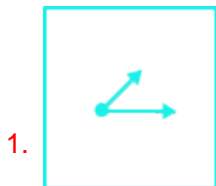
Question 11 :

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

Difficulty : Moderate

Average Time : 45 Seconds

Options :



Solution :

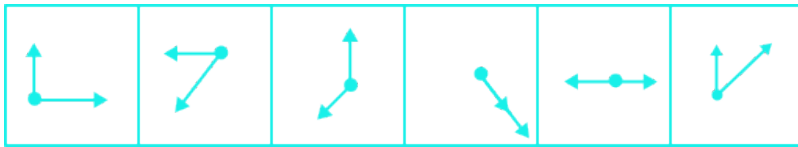


The correct answer is **option 3** i.e.

The logic used here is:

1. The short arrow is rotated by 90 and 45 degrees in the anticlockwise direction alternatively.
2. The long arrow is rotated by 135 degrees in the clockwise direction.

The series of figures is:



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

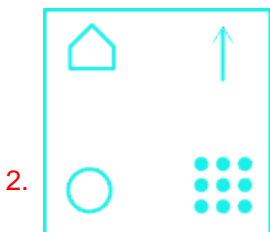
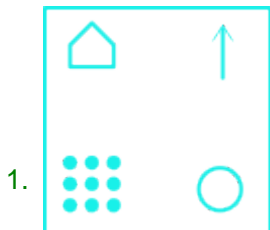
Question 12 :

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

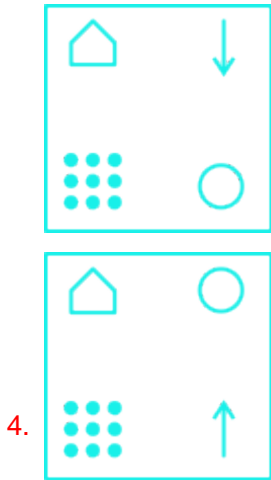
Difficulty : Moderate

Average Time : 73 Seconds

Options :



3.



Solution :

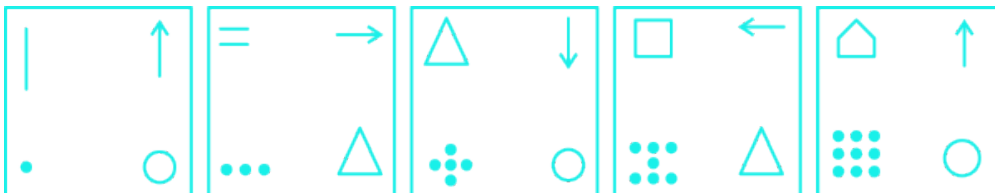


The correct answer is **option 1** i.e.

The logic used here is:

1. The shaded circle inside the square is increasing in the odd number.
2. The arrow is rotating by 90 degrees subsequently.
3. The circle and the triangle are positioned alternatively.
4. The number of lines increases by one in the next figure.

The series of figures is:



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

Question 13 :

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. NMQR, NQYD, NUGP, NYOB, ?



Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. NQRC
2. NMWN
3. NCWN
4. NWRQ

Solution :

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

Given series: NMQR, NQYD, NUGP, NYOB,?

The series follows this pattern:

NMQR, NQYD

$$M + 4 = Q$$

$$Q + 8 = Y$$

$$R + 12 = D$$

NQYD, NUGP

$$Q + 4 = U$$

$$Y + 8 = G$$

$$D + 12 = P$$

NUGP, NYOB

$$U + 4 = Y$$

$$G + 8 = O$$

$$P + 12 = B$$

NYOB,?

$$Y + 4 = C$$

$$O + 8 = W$$

$$B + 12 = N$$



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

Question 14 :

Three of the following letter clusters are alike in some manner and hence form a group. Which letter cluster does not belong to that group?

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

1. TVR
2. DFB
3. QSO
4. KGI

Solution :

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

The logic used here is:

1st letter + 2 = 2nd letter

2nd letter - 4 = 3rd letter

Option 1: TVR

$T + 2 = V$

$V - 4 = R$

This follows the logic.

Option 2: DFB

$D + 2 = F$

$F - 4 = B$

This follows the logic.

Option 3: QSO

$Q + 2 = S$

$S - 4 = O$



This follows the logic.

Option 4: KGI

$$K + 2 = M$$

$$M - 4 = I$$

This does not follow the logic.

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

Question 15 :

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. JUMPED: LWORGF:: QUICKS: SWKEMU:: FUZING:?

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. HKWIPB
2. IPKBWH
3. HWBKPI
4. HWKBPI

Solution :

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

The logic used here is:

JUMPED: LWORGF

$$J + 2 = L$$

$$U + 2 = W$$

$$M + 2 = O$$

$$P + 2 = R$$

$$E + 2 = G$$

$$D + 2 = F$$

QUICKS: SWKEMU



$$Q + 2 = S$$

$$U + 2 = W$$

$$I + 2 = K$$

$$C + 2 = E$$

$$K + 2 = M$$

$$S + 2 = U$$

Similarly,

FUZING:?

$$F + 2 = H$$

$$U + 2 = W$$

$$Z + 2 = B$$

$$I + 2 = K$$

$$N + 2 = P$$

$$G + 2 = I$$

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

Question 16 :

Which of the following letter clusters will replace the question mark (?) and complete the following letter-cluster series?
DW, FU, GT, IR, JQ, ?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. LN
2. LO
3. MO
4. LP

Solution :

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

Given series: DW, FU, GT, IR, JQ,?

The series follows this pattern:

DW, FU

$D + 2 = F$

$W - 2 = U$

FU, GT

$F + 1 = G$

$U - 1 = T$

GT, IR

$G + 2 = I$

$T - 2 = R$

IR, JQ

$I + 1 = J$

$R - 1 = Q$

JQ,?

$J + 2 = L$

$Q - 2 = O$

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

Question 17 :

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. All K are H. II. No S is K. Conclusion: I. No K is S. II. All H are K.

Difficulty : Moderate

Average Time : 72 Seconds

Options :

1. Only conclusion II follows
2. Only conclusion I follows

Neither conclusion follows

4. Both conclusions I and II follows

Solution :

The correct answer is **option 2** i.e. **Only conclusion I follows.**

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



Conclusions:

I. No K is S **True** (As no S is K, so no K is S also true).

II. All H are K **False** (It is possible, but no definite conclusion can be drawn).

Hence, **Only conclusion I follows.**

Question 18 :

Select the setting in which the numbers are related in the same way as the numbers of the following set. (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 are NOT allowed) (240, 55, 65) (320, 85, 75)

Difficulty : Moderate

Average Time : 77 Seconds

Options :

1. (140, 35, 25)
2. 220, 90, 15)
3. (160, 35, 45)
4. (200, 5, 105)

Solution :

The correct answer is **option 3** i.e. **(160, 35, 45).**

The logic used here is:

(240, 55, 65)



$$55 + 65 = 120$$

$$120 \times 2 = 240$$

(320, 85, 75)

$$85 + 75 = 160$$

$$160 \times 2 = 320$$

Similarly,

(160, 35, 45)

$$35 + 45 = 80$$

$$80 \times 2 = 160$$

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

Question 19 :

Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. Statements: Some doctors are painters. Some doctors are labours. All the labours are athletes. Conclusions:

I. Some labours are painters. II. Some athletes are doctors. III. All the doctors are athletes. IV. Some athletes are painters.

Difficulty : Moderate

Average Time : 59 Seconds

Options :

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

Solution :

The correct answer is **option 2** i.e. **Only conclusion II follows.**

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



Conclusions:

- I. Some labours are painters **False** (It is possible, but no definite conclusion can be drawn).
- II. Some athletes are doctors **True** (As all labours are athletes and some doctors are labours, so, some athletes are doctors is also true).
- III. All the doctors are athletes **False** (It is possible, but no definite conclusion can be drawn).
- IV. Some athletes are painters **False** (It is possible, but no definite conclusion can be drawn).

Hence, **Only conclusion II follows.**

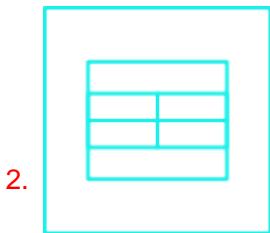
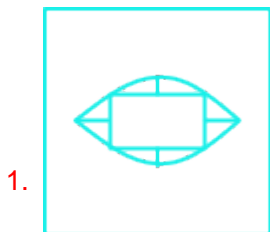
Question 20 :

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

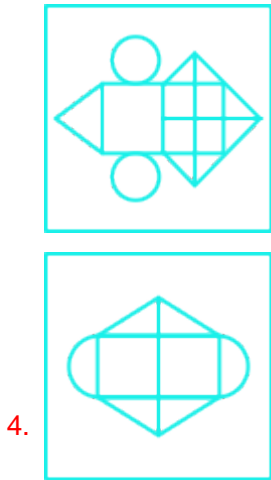
Difficulty : Moderate

Average Time : 84 Seconds

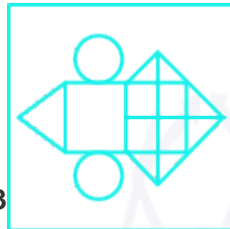
Options :



3.

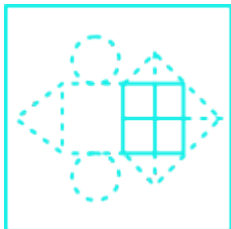


Solution :



The correct answer is **option 3**.

The figure in option 3 is embedded in the given figure, as shown below:



Question 21 :

Select the odd group of numbers. (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. 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 : 73 Seconds

Options :

1. (153 – 151 – 147)



(171 – 169 – 167)

3. (183 – 181 – 179)

4. (201 – 199 – 197)

Solution :

The correct answer is **option 1** i.e. (153 – 151 – 147).

The logic used here is:

1st number - 2nd number = 2

2nd number - 3rd number = 2

Option 1: (153 – 151 – 147)

153 - 151 = 2

151 - 147 = 4

This does not follow the logic.

Option 2: (171 – 169 – 167)

171 - 169 = 2

169 - 167 = 2

This follows the logic.

Option 3: (183 – 181 – 179)

183 - 181 = 2

181 - 179 = 2

This follows the logic.

Option 4: (201 – 199 – 197)

201 - 199 = 2

199 - 197 = 2

This follows the logic.

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

Question 22 :



Which two signs and two numbers should be interchanged in the following equation to make it correct? $150 \times 15 + 14 - 9 \div 2 = 6$

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. 9, 2, , ×
2. 9, 2, ÷, ×
3. 150, 2, ÷,
4. 15, 9, +, ÷

Solution :

The correct answer is **option 2** i.e. **9, 2, ÷, ×**.

Given equation: $150 \times 15 + 14 - 9 \div 2 = 6$

Option 1: 9, 2, , ×

After interchanging the expression becomes:

$$= 150 - 15 + 14 \times 2 \div 9 = 6$$

$$= 138.11 \text{ is not equal to } 6.$$

Option 2: 9, 2, ÷, ×

After interchanging the expression becomes:

$$= 150 \div 15 + 14 - 2 \times 9 = 6$$

$$= 6 \text{ is equal to } 6.$$

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

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

Question 23 :

In a certain code language, 'PSYCHIC' is written as 'YSPCCIH', and 'CITIZEN' is written as 'TICINEZ'. How will 'MAHATMA' be written in that language?

Difficulty : Moderate

Average Time : 63 Seconds

Options :

HAMAATM

2. AHMAAMT

3. HAMAAMT

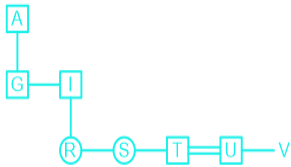
4. HAMAMAT

Solution :

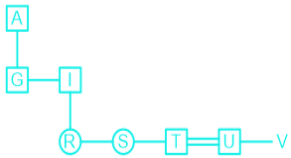
The correct answer is **option 3** i.e. **HAMAAMT**.

The logic used here is:

'PSYCHIC' is written as 'YSPCCIH'

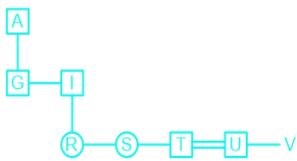


'CITIZEN' is written as 'TICINEZ'



Similarly;

Code for the word MAHATMA:



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

Question 24 :

After arranging the given words according to dictionary order, which word will come at 'Fourth' position? 1. Unseen 2. Unseam 3. Unsafe 4. Unsound 5. Unsay

Difficulty : Moderate

Average Time : 67 Seconds

Options :

Unseen

2. Unsay
3. Unseam
4. Unsound

Solution :

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

In this question, you need to arrange the words as they would appear in the English dictionary and then find the word which will come in the fourth position.

1. Unsafe
2. Unsay
3. Unseam
4. Unseen
5. Unsound

Hence, the word that comes in the fourth position is 'Unseen.'

Question 25 :

If $A \times B$ means that A is the father of B, $A + B$ means that A is the mother of B, $A \div B$ means that A is the brother of B. Then which of the following expression shows that Q is the son of P?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. $Q + P \times R$
2. $P + Q \times R$
3. $R \times Q + P$
4. $P + Q \div R$

Solution :

The correct answer is **option 2** i.e. $P + Q \times R$.

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.

Option 1: Q + P × R



Option 2: P + Q × R



From figure 2, Q is the son of P.

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

Question 26 :

Which of the following interchange of numbers and mathematical signs would make the given equation correct? $30 \div 6 \times 4 + 1535 = 25$

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. 25 and 35, × and ÷
2. 4 and 6, + and ×
3. 25 and 30, × and ÷
4. 30 and 35, and ÷

Solution :

The correct answer is **option 1** i.e. **25 and 35, × and ÷**.

Given equation: $30 \div 6 \times 4 + 1535 = 25$

Option 1: 25 and 35, × and ÷

After interchanging the expression becomes:

$$= 30 \times 6 \div 4 + 15 \quad 25 = 35$$

= 35 is equal to 35.

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

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

Question 27 :

A @ B means 'A is the sister of B'. A & B means 'A is the brother of B'. A # B means 'A is the wife of B'. A ^ B means 'A is the mother of B'. A + B means 'A is the father of B'. If A + G & I + R @ S @ T # U & V, then which of the following statements is NOT correct?

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. I is the father-in-law of U.
2. A is the maternal grandfather of T.
3. G is the brother of I.
4. R is the paternal granddaughter of A.

Solution :

The correct answer is **option 2** i.e. **A is the maternal grandfather of T.**

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, A is not the maternal grandfather of T.



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

Question 28 :

Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term. 35: 21::? : 36:: 40: 24

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. 65

2. 50

3. 60

4. 55

Solution :

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

The logic used here is:

35: 21

$35 \div 5 = 7$

$21 \div 3 = 7$

40: 24

$40 \div 5 = 8$

$24 \div 3 = 8$

Similarly,

? : 36

$36 \div 3 = 12$

$x \div 5 = 12$

$x = 60$

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

Question 29 :

Which of the following numbers will replace the question mark (?) in the given series? 4, 6, 12, 14, 28, 30, ?



Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. 62

2. 60

3. 54

4. 52

Solution :

The correct answer is **option 2** i.e. **60**.

Given series: 4, 6, 12, 14, 28, 30, ?

The series follows this pattern:

4, 6, 12, 14, 28, 30, ?

$4 + 2 = 6$

$6 + 6 = 12$

$12 + 2 = 14$

$14 + 14 = 28$

$28 + 2 = 30$

$30 + 30 = 60$

So, the next term in the series is **60**.

Question 30 :

Which of the given sectors is largely driven by considerations of social welfare?

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. Foreign

2. Co-operative

3. Public

4. Private

Solution :

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

- The public sector creates and maintains essential infrastructure, such as roads, bridges, and public transit networks.
- The sector supports needy individuals through welfare programs such as food assistance, housing subsidies, and unemployment benefits.

Question 31 :

The Hindu college was established in 1791 at _____.

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. Calcutta
2. Dacca
3. Surat
4. Banaras

Solution :

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

- The Hindu College was established in 1817 Banaras.
- It was established in Banaras to encourage the study of ancient Sanskrit texts that would be useful for the administration of the country.

Question 32 :

In which of the following languages did Jyotiba Phule write 'Gulamgiri' in 1873?

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. English
2. Marathi
3. Hindi
4. Gujarati

Solution :

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



Written by Mahatma Jotirao Phule and published in the year 1873, the book "Gulamgiri" highlights the problems related to the varna and caste system.

- This book written by mahatma Jyotiba phule. Mahatma Phule, whom Ambedkar considered his guru. One of the first critiques of the caste system. This piece takes stock of its major argument and its significance.
- This book original in Marathi, with an English preface. 'Gulamgiri' word translated into English as Slavery.

Question 33 :

Which of the following are Rabi crops only?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Maize and peas
2. Barley and gram
3. Paddy and cotton
4. Wheat and jowar

Solution :

The correct answer is **Option 2** i.e. **Barley and gram**.

- The rabi crops include wheat, barley, oats (cereals), chickpea/gram (pulses), linseed, garlic, cumin, coriander, mustard (oilseeds) etc.
- These crops are sown around the Retreating Monsoon and Northeast monsoon season, which begins in October and are called rabi or winter crops.

Question 34 :

Identify an example of organisms that are free-swimming and bottom-dwelling forms.

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Phytoplankton
2. Zooplankton
3. Fungi
4. Jellyfishes

Solution :

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



Zooplankton are small, aquatic microorganisms in the water column that include crustaceans, rotifers, open water insect larvae and aquatic mites.

- The zooplankton community is composed of both primary consumers, which eat free-floating algae, and secondary consumers, which feed on other zooplankton.

Question 35 :

Which of the following cities hosted the 2019 Military World Games organised by the International Military Sports Council?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Rio de Janeiro, Brazil
2. Bogota, Colombia
3. Wuhan, China
4. Mungyeong, South Korea

Solution :

The correct answer is **Option 3** i.e. **Wuhan, China**.

- From 1 to 4 December, the Coordination Committee for the 7th CISM World Games 2019 was in Wuhan City, China for the inspection visit of the preparations for the 7th edition of the CISM World Summer Games in 2019.
- On that occasion, the CISM President signed jointly with Major General Ma Kaipin, Chief of the CISM Chinese Delegation and Mr. Wang Fon, Mayor of Wuhan City, the final contract of organization of the event.

Question 36 :

Abdul Karim Khan was the exponent of which school of Hindustani Music?

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. Jaipur Gharana
2. Gwalior Gharana
3. Delhi Gharana
4. Kirana Gharana

Solution :

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



The Kirana gharana laid emphasis on melody rather than rhythm. Bhimshen Joshi has become the most popular artist of this gharana because he combines melody with virtuosity.

- His teacher Sawai Gandharva's teacher Abdul Karim Khan was a pioneer and the founder of the Kirana Gharana.
- He had rare gift for making melodic phrases in any raga he chose to sing. Sawai Gandharva's important disciples are Bhimsen Joshi, Gangubai Hangal and Firoz Dastur.

Question 37 :

Who has taken oath as Bihar Chief Minister for 8th time?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Tejaswi Prasad Yadav
2. Pramod Sawant
3. Anugrah Narayan
4. Nitish Kumar

Solution :

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

- Nitish Kumar took oath as the Bihar CM for the second time in 2005 when his party won 88 seats and its ally, the Bharatiya Janata Party (BJP) won 55 seats.
- Kumar first took oath as the CM of Bihar on March 3, 2000 despite falling short of a majority, and remained the CM for seven days.
- He was again sworn in as the CM in 2010, but in 2013 he dumped the BJP and after the poll loss he resigned and appointed Jitan Ram Manjhi as the CM.
- However, he returned as the CM in 2015 and said it was a mistake to resign. In 2015 he allied with the RJD and swept the polls, but in 2017 he parted ways with the RJD, teamed up with the BJP and continued till the Assembly election in 2020. He was sworn-in as the CM for the seventh time.

Question 38 :

Which of the following statements about cell cycle is FALSE?

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. Preparation of mitosis takes place in G2 phase.
2. In M phase, the cell grows physically larger and copies organelles.



In S phase, replication of DNA takes place.

4. In G1 phase, the cell grows physically larger and copies organelles.

Solution :

The correct answer is **Option 2** i.e. **In M phase, the cell grows physically larger and copies organelles.**

- A cell cycle is a series of events that takes place in a cell as it grows and divides.
- A cell spends most of its time in what is called interphase, and during this time it grows, replicates its chromosomes, and prepares for cell division.
- The cell then leaves interphase, undergoes mitosis, and completes its division

Question 39 :

Shyamji Krishna Varma established India House at _____ in 1905.

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. New York
2. Bombay
3. Paris
4. London

Solution :

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

- In February 1905, Krishnavarma founded the Indian Home Rule Society.
- He then established India House in Highgate (at 65 Cromwell Avenue) in the same year (July 1905), as a hostel for Indian students, which became a meeting-place for Indian revolutionaries in London.

Question 40 :

If $x + 1/x = 4$, then find the value of $x^5 + x^{-5}$?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. 726
2. 728
3. 724

734

Solution :The correct answer is **option 3** i.e. **724**.**Given:**

$$x + 1/x = 4$$

Formula used:

$$\text{If } x + 1/x = K$$

Then on squaring both sides we get

$$x^2 + 1/x^2 = k^2 - 2.$$

On cubing both sides we get

$$x^3 + 1/x^3 = k^3 - 3k$$

$$\text{And, } x^5 + 1/x^5 = (x^2 + 1/x^2) \times (x^3 + 1/x^3) - (x + 1/x)$$

Calculation:

$$x + 1/x = 4 \text{ ----(1)}$$

Square both sides of equation (1)

$$= x^2 + 1/x^2 = 4^2 - 2$$

$$= x^2 + 1/x^2 = 14$$

Cubing both sides of equation (1)

$$x^3 + 1/x^3 = 4^3 - 3 \times 4$$

$$x^2 + 1/x^3 = 64 - 12$$

$$x^2 + 1/x^3 = 64 - 12$$

$$x^2 + 1/x^3 = 52$$

Now apply the formula of $x^5 + 1/x^5$

$$14 \times 52 - 4$$

$$728 - 4 = 724$$

The value of $x^5 + 1/x^5$ is 724.

Question 41 :

Jalshakti Abhiyan was introduced on

Difficulty : Moderate

Average Time : 78 Seconds

Options :

1. March 22, 2021
2. April 20, 2021
3. June 14, 2022
4. April 3, 2022

Solution :

The correct answer is **Option 1** i.e. **March 22, 2021**.

- The program was introduced on March 22, 2021.
- From 29 March 2022 to 30 November 2022, the Jal Shakti Abhiyan campaign launched a new program called catch the rain.

Question 42 :

The first edition of the Youth Olympic Games was held at _____.

Difficulty : Moderate

Average Time : 38 Seconds

Options :

1. Lausanne
2. Singapore
3. Nanjing
4. Innsbruck

Solution :

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

- The 1st Summer YOG were held in Singapore, in August 2010.
- The YOG were created at the initiative of the former President of the International Olympic Committee (IOC), Jacques Rogge.
- The objective of the YOG is to encourage young people around the world to practise sport; raise awareness of and

encourage them to adopt the values of Olympism.

Question 43 :

Thorny bushes are found in _____ region.

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. mediterranean
2. polar
3. dry desert
4. high rainfall

Solution :

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

- Due to hot and dry climate, the leaves of the plants are reduced to spines.
- This is why, thorny bushes are mostly found in such dry climatic conditions.

Question 44 :

Which of the following folk dance forms does NOT belong to the state of Gujarat?

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. Garba
2. Dandiya Raas
3. Bidesiya
4. Vinchhudo

Solution :

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

- Bidesiya dance is associated with Bihar. Bidesiya is a form of dance-drama which was created by Bhikhari Thakur.
- Thakur was illiterate but taught himself to read and memorize Ramcharitmanas written by Tulsidas whom he considered his literary guru.
- He was referred to as the Shakespeare of Bhojpuri. Thakur is known to have written twelve plays including Bidesia and numerous songs.

**Question 45 :**

Who among the following classical dancers was rewarded with the Padma Vibhushan Award in 2003?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Sonal Mansingh
2. Kumudini Lakhia
3. Shovana Narayan
4. Sunayana Hazarilal

Solution :

The correct answer is **option 1** i.e. **Sonal Mansingh**.

- Sonal Mansingh is a prominent Indian classical dancer who specializes in Bharatanatyam and Odissi.
- For her contributions to promoting 'Classical dances', she has received accolades from many national and international organizations.
- She was the youngest recipient of Padma Bhushan in 1992.
- In 2003, Sonal became the first Indian woman dancer to be awarded Padma Vibhushan.

Question 46 :

The SI unit of acceleration is _____.

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. m^2/s
2. m^2/s^2
3. m/s
4. m/s^2

Solution :

The correct answer is **Option 4** i.e. m/s^2 .

- The SI unit of acceleration is metres/second² (m/s^2).
- It is defined as the rate of change of velocity with respect to time.

Question 47 :



The Tamil word 'muvendar' mentioned in the Sangam poems means _____.

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. dhamma mahamatta
2. Headmen
3. Rich
4. three chiefs

Solution :

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

- The Tamil word 'muvendar' mentioned in the Sangam poems means three chiefs, used for the heads of three ruling families, the Cholas, Cheras and Pandayas.
- They became powerful in south India around 2300 years ago.
- Each of the three chiefs had two centres of power: one inland and one on the coast.

Question 48 :

The Vice President of India is elected for a period of _____ years.

Difficulty : Moderate

Average Time : 47 Seconds

Options :

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

Solution :

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

- The Vice-President shall hold office for a term of five years from the date on which he enters upon his office.
- The Vice-President is elected by the members of an electoral college consisting of the members of both House of Parliament.

Question 49 :

Which of the following is highest quality coal?



Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. Lignite
2. Bituminous
3. Peat
4. Anthracite

Solution :

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

- Anthracite is the highest rank of coal.
- It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter.

Question 50 :

What are the three parts of bacterial flagellum?

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. Head, tail and lower body
2. Filament, tail and hook
3. Basal body, tail and filament
4. Filament, hook and basal body

Solution :

The correct answer is **Option 4** i.e. **Filament, hook and basal body**.

- Flagella are the organelles for bacterial locomotion.
- These supramolecular structures extend from the cytoplasm to the cell exterior and are composed of three major structural elements, the basal body, the hook and the filament.

Question 51 :

The common name of the compound CaOCl_2 is _____.

Difficulty : Moderate

Average Time : 46 Seconds

**Options :**

1. bleaching powder
2. washing soda
3. baking soda
4. gypsum

Solution :

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

- The common name for CaOCl_2 is Bleaching powder.
- They are also called calcium oxychloride.
- It has various uses but it is majorly used for its bleaching action, the bleaching action of Bleaching Powder is used to bleach clothes in laundries, and others.
- Bleaching powder is also used for various aspects such as disinfectants, cleaning potable water and others.

Question 52 :

Select the option that expresses the given sentence in passive voice. Priya washes her clothes in the evening.

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

1. The clothes was washed by Priya in the evening.
2. The clothes is washed by Priya in the evening.
3. The clothes are washed by Priya in the evening.
4. The clothes were washed by Priya in the evening

Solution :

The correct answer is **option 3** i.e. **The clothes are washed by Priya in the evening**.

- In the passive voice, the sentence is constructed so that the object of the sentence (her clothes) becomes the subject of the sentence, and the doer of the action (Priya) is either omitted or mentioned as an afterthought.
- The verb "wash" is changed to its past participle form "washed", and the appropriate form of the verb "to be" (in this case "are") is used as an auxiliary verb.
- To convert the given sentence "Priya washes her clothes in the evening" into the passive voice, we need to make the object of the sentence (her clothes) the subject of the sentence and make the subject (Priya) the object of the sentence. Then, we need to use the appropriate form of the verb "to be" followed by the past participle of the main

verb "wash".

Thus, the correct form of passive voice is:

The clothes are washed by Priya in the evening.

Question 53 :

Select the option that contains a grammatical error in the underlined portion. It would be impossible for them to continue living in this world if each of them knew exactly what fate had it store for them.

Difficulty : Moderate

Average Time : 97 Seconds

Options :

1. It would be impossible for them to continue living in this world if each of them knew exactly what fate had it store for them.
2. It would be impossible for them to continue living in this world if each of them knew exactly what fate had it store for them
3. It would be impossible for them to continue living in this world if each of them knew exactly what fate had it store for them.
4. It would be impossible for them to continue living in this world if each of them knew exactly what fate had it store for them.

Solution :

The correct answer is **option 4** i.e. **It would be impossible for them to continue living in this world if each of them knew exactly what fate had it store for them.**

- The correct phrase is "had in store for them," which means something is reserved for someone in the future.
- The verb "store" is incorrect in this context.

Therefore, the corrected sentence is:

It would be impossible for them to continue living in this world if each of them knew exactly what fate had in store for them.

Question 54 :

Select the most appropriate option to fill in the blank. The doctor directed the nurse to administer an _____ medicine to the patient.



Difficulty : Moderate

Average Time : 86 Seconds

Options :

1. official
2. eminent
3. alternative
4. insightful

Solution :

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

- The word "alternative" refers to something that is used in place of something else or as a substitute.
- In the context of the given sentence, the doctor has directed the nurse to administer a medicine that is not the usual or standard one, but an alternative to it.
- This could be because the standard medicine is not available or suitable for the patient, or because the doctor believes that the alternative medicine would be more effective.

Thus, the correct sentence is:

*The doctor directed the nurse to administer an **alternative** medicine to the patient.*

Question 55 :

Select the option that can be used as a one-word substitute for the given group of words. A piece of a living tissue or plant that is transplanted surgically

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. Gratis
2. Gourmet
3. Gracious
4. Graft

Solution :

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



The one-word substitute for the given group of words is "graft".

- A graft is a piece of living tissue or plant that is surgically transplanted from one organism to another.

Question 56 :

Select the correct active form of the given sentence. The clothes will be delivered by the shop on Monday.

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

1. The shop will be delivering the clothes on Monday.
2. The shop will deliver the clothes on Monday.
3. The shop would be delivering the clothes on Monday.
4. The shop would deliver the clothes on Monday

Solution :

The correct answer is **option 2** i.e. **The shop will deliver the clothes on Monday.**

- In the passive voice, the sentence is constructed so that the object of the action (the clothes) becomes the subject of the sentence, and the doer of the action (the shop) is either omitted or mentioned as an afterthought.
- In the active voice, however, the sentence is constructed so that the doer of the action (the shop) becomes the subject of the sentence, and the object of the action (the clothes) is placed after the verb.
- By changing the passive sentence "The clothes will be delivered by the shop on Monday" to the active sentence "The shop will deliver the clothes on Monday", the subject (the shop) is now the doer of the action, which is delivering the clothes, and the object (the clothes) is the receiver of the action.
- This makes the sentence more clear and direct, and puts the focus on the doer of the action, which is often more important or relevant to the context.

Thus, the correct sentence is:

The shop will deliver the clothes on Monday.

Question 57 :

Select the most appropriate ANTONYM of the underlined word. Failure to carry hall ticket to the exam is considered as a trivial issue.

Difficulty : Moderate**Average Time : 94 Seconds****Options :**



underrated

2. kind

3. problematic

4. serious

Solution :

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

The meaning of the given words is:

- **Trivial:** of little value or importance.
- **Serious:** bad or dangerous
- **underrated:** not rated or valued highly enough.
- **Kind:** a group of people or things having similar characteristics.
- **Problematic:** constituting or presenting a problem.

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

Question 58 :

Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph. A. A panther is reported to have broken into a house yesterday in search of food and shelter. B. The villagers heard his cries and ran to the house but the scared animal had run away through the window by then. C. It secretly slouched into a room where a young man named Johnny was sleeping, who suddenly woke up and realised that the beast was roaming around his bed. D. Just as the panther was about to leap on him, he swiftly shot out of bed and hid in a closet.

Difficulty : Moderate

Average Time : 81 Seconds

Options :

1. ABDC
2. BDCA
3. ACDB
4. DCAB

Solution :

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



The original paragraph is a narrative about a panther that broke into a house and the sequence of events that took place.

- In order to form a coherent paragraph, we need to rearrange the sentences in a logical order that presents the events in a clear and meaningful way.
 - **Sentence A** sets the stage for the incident by informing the reader that a panther had broken into a house.
 - **Sentence C** follows up by describing how the panther sneaked into a room where Johnny was sleeping, creating tension and suspense.
 - **Sentence D** then provides the climax of the story by explaining how Johnny managed to escape the panther's attack.
 - Finally, **sentence B** provides the resolution by describing how the villagers responded to the incident but were too late to catch the panther.

Thus, the correct paragraph is:

A panther is reported to have broken into a house yesterday in search of food and shelter. It secretly slouched into a room where a young man named Johnny was sleeping, who suddenly woke up and realised that the beast was roaming around his bed. Just as the panther was about to leap on him, he swiftly shot out of bed and hid in a closet. The villagers heard his cries and ran to the house but the scared animal had run away through the window by then.

Question 59 :

Select the INCORRECTLY spelt word.

Difficulty : Moderate

Average Time : 97 Seconds

Options :

1. Peircing
2. Sleek
3. Pie
4. Itch

Solution :

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

The correct spelling and meaning of the given words is:

- **Piercing:** having or showing shrewdness or keen intelligence.
- **Sleek:** smooth and glossy.
- **Pie:** a baked dish of fruit, or meat and vegetables, typically with a top and base of pastry.

Itch: an uncomfortable sensation on the skin that causes a desire to scratch.

Thus, **piercing** was spelled wrongly in the given question.

Question 60 :

Select the most appropriate option to fill in the blank. If you try to do something every day you will _____ progress.

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. hold
2. get
3. make
4. catch

Solution :

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

- The verb "make" can be used to indicate causing something to happen or bringing about a certain result.
- In this sentence, the word "progress" refers to the improvement or development towards a goal.
- Therefore, "make" is the most suitable option to indicate that by trying to do something every day, progress will be achieved.

Thus, the correct sentence is:

If you try to do something every day you will **make** progress.

Question 61 :

Select the most appropriate synonym of the given word. Competent

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Complex
2. Poor
3. Capable
4. Beginner

**Solution :**

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

The meaning of the given words is:

- **Competent:** having the necessary ability, knowledge, or skill to do something successfully.
- **Capable:** having the ability, fitness, or quality necessary to do or achieve a specified thing.
- **Complex:** consisting of many different and connected parts.
- **Poor:** lacking sufficient money to live at a standard considered comfortable or normal in a society.
- **Beginner:** a person just starting to learn a skill or take part in an activity.

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

Question 62 :

Choose the correct meaning of the given idiom. In weal and woe

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. In sad and gloomy days
2. In happiness and good times
3. In prosperity and adversity
4. In despair and failure

Solution :

The correct answer is **option 3** i.e. **In prosperity and adversity**.

- The phrase "Weal and woe" means **both in times of happiness and success and in times of sadness and difficulty**.

Thus, the most appropriate choice among the given options is **In prosperity and adversity**.

Question 63 :

Select the most appropriate synonym of the given word. Announce

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Denounce



Secret

3. Hide

4. Advertise

Solution :

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

The meaning of the given words is:

- **Announce:** make a formal public statement about a fact, occurrence, or intention.
- **Advertise:** describe or draw attention to (a product, service, or event) in a public medium in order to promote sales or attendance.
- **Denounce:** publicly declare to be wrong or evil.
- **Secret:** not known or seen or not meant to be known or seen by others.
- **Hide:** put or keep out of sight.

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

Question 64 :

Rearrange the parts of the sentence in correct order. While physical movement P. activities may not require physical Q. is important for children, all learning R. the part of teachers and students S. movement and facial expressions on

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. PRQS
2. RSPQ
3. QSRP
4. QPSR

Solution :

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

- The sentence is discussing the importance of physical movement in learning activities for children and the role of teachers and students in using movement and facial expressions.
- In this sentence, the introductory clause "While physical movement is important for children" sets the context for the sentence, followed by the main clause "all learning activities may not require physical movement and facial expressions" that explains the main idea.
- Finally, the phrase "on the part of teachers and students" specifies who should be using movement and facial



expressions.

The correct order is:

"While physical movement is important for children, all learning activities may not require physical movement and facial expressions on the part of teachers and students."

Question 65 :

Select the most appropriate meaning of the given idiom. A green horn

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. Uneducated person
2. Inexperienced person
3. Clever person
4. Skilled person

Solution :

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

- The meaning of the given idiom is a **person who is new to or inexperienced at a particular activity**.

*Thus, the most appropriate choice among the given options is '**Inexperienced person**.'*

Question 66 :

Select the correct direct form of the given sentence. He said that something might be missing in there.

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. He said, "Something may be missing in here."
2. He said, "Something had to be missing in there."
3. He said, "Something is been missing in here."
4. He said, "Something could be missing in here."

Solution :

The correct answer is **option 1** i.e. **He said, "Something may be missing in here."**

One must follow the following steps for conversion:



The reported verb 'said' remains unchanged in the reporting part of speech.

- The conjunction that should be replaced with inverted commas to show the direct speech part.
- A comma is added after the direct speech part.
- The modal verb might should be replaced with may in the direct part of the speech.

Thus, the correct direct form the given sentence is **He said, "Something may be missing in here."**

Question 67 :

Select the sentences that contains no spelling errors.

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. Many communities in the world still feel that their voices and position has been disenfranchised.
2. Many communities in the world still feel that their voices and position has been dysenfranchised.
3. Many communities in the world still feel that their voices and position has been dysenfrenchized.
4. Many communities in the world still feel that their voices and position has been disenfranchised.

Solution :

The correct answer is **option 4** i.e. **Many communities in the world still feel that their voices and position has been disenfranchised.**

- The grammatical explanation for this question would be to point out that the sentence contains a spelling error.
- The word "has" should be changed to "have" to make the sentence grammatically correct.

The correct sentence would be:

"Many communities in the world still feel that their voices and position have been disenfranchised."

Question 68 :

Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph. A. They also wore felt caps to cover their ears. B. They wore trousers tucked into leather boots. C. This place was famous for its skilful archers and horsemen. D. In the 5th and 4th centuries BC, today's south Ukraine was known as Scythia.



Difficulty : Moderate

Average Time : 85 Seconds

Options :

1. BCDA
2. CBDA
3. ABCD
4. DCBA

Solution :

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

- The given prompt asks to arrange the sentences in the correct order to form a meaningful and coherent paragraph.
- The sentences describe some details about Scythia, which was the name of today's south Ukraine in the 5th and 4th centuries BC.

The correct order of the sentences to form a coherent paragraph is:

- D. In the 5th and 4th centuries BC, today's south Ukraine was known as Scythia.
- C. This place was famous for its skilful archers and horsemen.
- B. They wore trousers tucked into leather boots.
- A. They also wore felt caps to cover their ears.

The correct sentence is:

In the 5th and 4th centuries BC, today's south Ukraine was known as Scythia. This place was famous for its skilful archers and horsemen. They wore trousers tucked into leather boots. They also wore felt caps to cover their ears.

Question 69 :

The following sentence has been split into four segments. Identify the segment that contains a grammatical error. He used to reply / that the only place / for which he went / was the town library.

Difficulty : Moderate

Average Time : 84 Seconds

Options :

1. was the town library
2. for which he went



He used to reply

4. that the only place

Solution :

The correct answer is **option 2** i.e. **for which he went**.

- The third part of the given sentence is erroneous in nature. There lies an error of preposition.
- Thus, the preposition for should be replaced with a preposition 'to'.
- Preposition 'for' is used to talk about a purpose or a reason for something.
- Preposition 'to' is used to indicate the direction or destination of a particular place or something.

Thus, the correct sentence is:

*He used to reply that the only place **to** which he went was the town library.*

Question 70 :

Select the most appropriate synonym of the underlined word in the given sentence. The sporadic instructions of the invigilators distracted the examinee.

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. Continuous
2. Indirect
3. Repetitive
4. Occasional

Solution :

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

The meaning of the given words is:

- **Sporadic:** occurring at irregular intervals or only in a few places; scattered or isolated.
- **Occasional:** occurring, appearing, or done infrequently and irregularly.
- **Continuous:** forming an unbroken whole; without interruption.
- **Indirect:** not directly caused by or resulting from something.
- **Repetitive:** containing or characterized by repetition, especially when unnecessary or tiresome.

*Thus, the most appropriate synonym for the underlined word is **occasional**.*



Question 71 :

Select the most appropriate option that can substitute the underlined segment in the given sentence. Rajan is having three brothers and three sisters.

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. Rajan has been having
2. Rajan has
3. Rajan was having
4. Rajan having

Solution :

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

The underlined segment in the given sentence is "is having."

- "Has" can substitute the underlined segment and convey the same meaning. "Rajan has three brothers and three sisters."
- "**is possessing**" doesn't fit the context and doesn't convey the intended meaning.
- "**Had**" suggests past tense and doesn't fit the context.
- "**Have**" is not appropriate as the subject is singular, "Rajan," and not plural.

Therefore, the correct sentence is:

Rajan **has** three brothers and three sisters.

Comprehension :

Direction: In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number. The modern-day student is extremely (1)_____ with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy (2)_____ affinity to various platforms on the internet. However, one skill that has been (3)_____ affected is listening skills. They are extremely poor (4)_____ listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of (5)_____ on the planet.

Question 72 :

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

Difficulty : Moderate

Average Time : 103 Seconds

Options :

1. hindered
2. disconnected
3. dreary
4. savvy

Solution :

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

The missing word describes the modern-day student's relationship with technology.

- "Hindered" means to obstruct or impede progress, which doesn't fit the context.
- "Disconnected" means not connected or separate, which doesn't fit the context.
- "Dreary" means dull and bleak, which doesn't fit the context.
- "Savvy" means knowledgeable or skilled, which fits the context as it suggests that the modern-day student has a good understanding of technology.

Thus, the correct sentence:

*The modern-day student is extremely **savvy** with technology. They do read quite a bit because of social media.*

Comprehension :

Direction: In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number. The modern-day student is extremely (1)_____ with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy (2)_____ affinity to various platforms on the internet. However, one skill that has been (3)_____ affected is listening skills. They are extremely poor (4)_____ listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of (5)_____ on the planet.

Question 73 :

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

Difficulty : Moderate

Average Time : 100 Seconds

Options :

their

2. they're

3. dare

4. there

Solution :

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

The missing word refers to the reason why the individuals in question write, suggesting that they have an affinity to various platforms on the internet.

- "**Their**" is a possessive pronoun indicating possession by a group of people, which fits the context.
- "**They're**" is a contraction of "they are," which doesn't fit the context as it doesn't convey the intended meaning.
- "**Dare**" means to have the courage to do something, which doesn't fit the context.
- "**There**" is an adverb indicating location, which doesn't fit the context.

Thus, the correct sentence is:

While **their** writing skills may not be top notch, they do write, courtesy their affinity to various platforms on the internet.

Comprehension :

Direction: In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number. The modern-day student is extremely (1)_____ with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy (2)_____ affinity to various platforms on the internet. However, one skill that has been (3)_____ affected is listening skills. They are extremely poor (4)_____ listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of (5)_____ on the planet.

Question 74 :

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

Difficulty : Moderate

Average Time : 110 Seconds

Options :

1. thoroughly
2. through
3. holistically



daily

Solution :

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

The missing words are related to the extent or frequency of the impact on listening skills.

- "**Thoroughly**" means completely or in great detail, which doesn't fit the context.
- "**Through**" means from one end or side to another, which doesn't fit the context.
- "**Holistically**" means considering the whole, which could fit the context as it suggests that listening skills have been impacted in a comprehensive way.
- "**Daily**" means occurring every day, which doesn't fit the context.

Thus, the correct sentence is:

*However, one skill that has been **thoroughly** affected is listening skills.*

Comprehension :

Direction: In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number. The modern-day student is extremely (1)_____ with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy (2)_____ affinity to various platforms on the internet. However, one skill that has been (3)_____ affected is listening skills. They are extremely poor (4)_____ listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of (5)_____ on the planet.

Question 75 :

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

Difficulty : Moderate

Average Time : 103 Seconds

Options :

1. passive
2. active
3. distinctive
4. demonstrative

Solution :

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

The missing word describes the type of listeners that people may become in the future.

- **"Passive"** fits the context as it describes listeners who are inactive and don't actively engage in the listening process.
- **"Active"** refers to listeners who are engaged and participate in the listening process, which doesn't fit the context.
- **"Distinctive"** means unique or different, which doesn't fit the context.
- **"Demonstrative"** means expressive or showing emotions openly, which doesn't fit the context.

Thus, the correct sentence is:

They are extremely poor **active** listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners.

Comprehension :

Direction: In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number. The modern-day student is extremely (1)_____ with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy (2)_____ affinity to various platforms on the internet. However, one skill that has been (3)_____ affected is listening skills. They are extremely poor (4)_____ listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of (5)_____ on the planet.

Question 76 :

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

Difficulty : Moderate

Average Time : 112 Seconds

Options :

1. sympathisers
2. empathisers
3. donors
4. characters

Solution :

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



The missing word could be describing the modern-day student's emotional tendencies towards technology.

- "**Sympathisers**" refers to those who express sympathy towards others, which doesn't fit the context.
- "**Empathisers**" refers to those who express empathy towards others, which doesn't fit the context.
- "**Donors**" refers to those who donate money or resources, which doesn't fit the context.
- "**Characters**" refers to a person's personality traits or behavior, which could fit the context, but doesn't make much sense in the given sentence.

Therefore, the most appropriate option to fill in the blank would be: **Option 2: "empathisers"** - Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of the number of empathisers on the planet.

Question 77 :

x is a negative number such that $k + k^{-1} = -2$, then what is the value of $k^2 + 4k - 2/k^2 + k - 5$?

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

1. 7
2. 1
3. -7
4. -1

Solution :

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

Given:

k is a negative number such that $k + k^{-1} = -2$.

Concept used:

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

Calculation:

$$k + k^{-1} = -2$$

$$k^2 + 1 = -2k$$

$$k^2 + 2k + 1 = 0$$

$$(k + 1)^2 = 0$$

So, $k = -1$

Now,

$$(k^2 + 4k - 2)/(k^2 + k - 5)$$

$$(-1)^2 + 4 \times (-1) - 2 / (-1)^2 + (-1) - 5 \text{ (Putting } k = -1)$$

$$= (1 - 4 - 2) / (1 - 1 - 5)$$

$$= -5/-5$$

$$= 1$$

Question 78 :

A man rows a boat a certain distance downstream in 9 hours, while it takes 18 hours to row the same distance upstream. How many hours will it take him to row three-fifth of the same distance in still water?

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. 9.5

2. 7.2

3. 10

4. 12

Solution :

The correct answer is **option 2** i.e. **7.2**.

Given:

A man rows a boat a certain distance downstream in 9 hours, while it takes 18 hours to row the same distance upstream.

Concept used:

1. Distance Speed \times Time
2. While rowing upstream, the upstream speed is the difference between the speed of the boat in still water and the speed of the flow.
3. While rowing downstream, the downstream speed is the addition of the speed of the boat in still water and the speed of the flow.
4. Componendo-Dividendo Method

**Calculation:**

Let the distance, speed of the boat in still water, and speed of the river be D, S, and R respectively.

According to the concept,

$$D/(S - R) = 18 \dots (1)$$

$$D/(S + R) = 9 \dots (2)$$

$$(1) / (2),$$

$$(S + R)/(S - R) = 2$$

$$(S + R + S - R)/(S + R - S + R) = (2 + 1)/(2 - 1) \text{ (Componendo-Dividendo Method)}$$

$$S/R = 3$$

$$S = 3R$$

Putting $S = 3R$ in (1), $D = 36R$

Now, time is taken to row three-fifth of the same distance in still water = $36R \times 3/5 \div 3R =$

7.2 hours

It will take 7.2 hours to row three-fifth of the same distance in still water.

Question 79 :

Study the given chart and answer the following question. What is the central angle corresponding to the production of steel by Kerala.?

Difficulty : Moderate

Average Time : 91 Seconds

Options :

1. 82°

2. 65.8°

3. 75.2°

4. 72°

Solution :

The correct answer is **option 4** i.e. 72° .

Calculation:

Percentage of Kerala in total production $200 / (220 + 240 + 180 + 160 + 200) \times 100\% = 20\%$

We know that 100% of the pie chart represents 360° .

Now, the 20% pie chart represents $(360 \times 20) / 100 = 72^\circ$

therefore, The central angle corresponding to the production of steel by Kerala is 72° .

Question 80 :

A shopkeeper makes a net profit of 44% on selling an article at successive discounts of 10% and 20%. Find the net profit percentage, if the shopkeeper sells the same article at a discount of 15%.

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

1. 50%
2. 70%
3. 30%
4. 40%

Solution :

The correct answer is **option 2** i.e. **70%**.

Given:

A shopkeeper makes a net profit of 44% on selling an article at successive discounts of 10% and 20%.

Concept used:

1. Selling Price = Marked Price \times (1 - Discount%)
2. Selling Price = Cost Price \times (1 + Gain%)

Calculation:

Final discount% = $10 + 20 - 10 \times 20 = 28\%$ 100

Let the marked and cost price be = $10 + 20 - (10 \times 20) / 100 = 28\%$ respectively.

According to the question,

$MP (1 - 28\%) = CP(1 + 44\%)$

$$= 0.72 \times MP = 1.44 \times CP$$

$$MP = 2CP$$

If a 15% discount is allowed then the selling price

$$= MP(1 - 15\%)$$

$$= 0.85MP$$

$$= 0.85 \times 2CP = 1.7CP$$

$$\text{Now, profit\%} = (1.7CP - CP/CP) \times 100\% = 70\%$$

therefore The net profit is 70%.

Question 81 :

What is the value of $2 \sin 15^\circ \cos 15^\circ - 4 \sin^3 15^\circ \cos 15^\circ$?

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. $3/2$

2. $3/2$

3. $3/4$

4. $1/2$

Solution :

The correct answer is **option 3** i.e. $3/4$.

Given:

$$2 \sin 15^\circ \cos 15^\circ - 4 \sin^3 15^\circ \cos 15^\circ$$

Formulae Used:

$$\sin 2A = 2 \sin A \cos A$$

$$\cos 2A = 1 - 2 \sin^2 A$$

Calculation:

$$2 \sin 15^\circ \cos 15^\circ - 4 \sin^3 15^\circ \cos 15^\circ$$

$$\sin 30^\circ - 2 \sin^2 15^\circ \sin 30^\circ$$



$$\sin 30^\circ(1 - 2 \sin 215^\circ)$$

$$\sin 30^\circ \cos 30^\circ$$

$$1/2 \times 3/2$$

$$3/4$$

Question 82 :

What is the ratio between the HCF and LCM of the numbers whose LCM is 48 and the product of the numbers is 384?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 1 : 4

2. 1 : 6

3. 1 : 3

4. 2 : 5

Solution :

The correct answer is **option 2** i.e. **1 : 6**.

Given:

$$\text{LCM} = 48$$

$$\text{Product of the numbers} = 384$$

Concept used:

$$\text{LCM} \times \text{HCF} = \text{The Product of two numbers}$$

Calculation:

According to the concept,

$$\text{HCF} = 384/48 = 8$$

$$\text{HCF} : \text{LCM} \quad 8 : 48 = 1 : 6$$

∴ The ratio between the HCF and LCM is 1 : 6.

Question 83 :

The price of a scooter increases successively by 10%, 5%, and 15%. What is the total percentage increase in the price of scooters?



Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 32.825%
2. 32%
3. 33%
4. 32.10%

Solution :

The correct answer is **option 1** i.e **32.825%**

To find the total percentage increase in the price of scooters, we need to use the concept of successive percentage increases.

Let's assume that the original price of the scooter is 100 dollars.

After the first increase of 10%, the new price becomes:

$$100 + 10\% \text{ of } 100 = 100 + 10 = 110 \text{ dollars.}$$

After the second increase of 5%, the new price becomes:

$$110 + 5\% \text{ of } 110 = 110 + 5.5 = 115.5 \text{ dollars.}$$

After the third increase of 15%, the new price becomes:

$$115.5 + 15\% \text{ of } 115.5 = 115.5 + 17.325 = 132.825 \text{ dollars.}$$

Therefore, the total increase in the price of the scooter is:

$$132.825 - 100 = 32.825 \text{ dollars.}$$

To find the total percentage increase, we need to express this increase as a percentage of the original price:

$$32.825 / 100 = 0.32825$$

$$0.32825 \times 100\% = 32.825\%$$

So the total percentage increase in the price of scooters is approximately 32.825%.

Question 84 :

If the area of the triangle ABC & DEF are $x^2 \text{ cm}^2$ and $y^2 \text{ cm}^2$ respectively, and $EF = a \text{ cm}$ then BC is

Difficulty : Moderate

Average Time : 70 Seconds

**Options :**

1. y^2/a^2x^2
2. y/ax
3. ax/y
4. a^2x^2/y^2

Solution :

The correct answer is **option 3** i.e. ax/y .

Given:

Areas of similar triangles triangle ABC and triangle DEF are $x^2 \text{ cm}^2$ and $y^2 \text{ cm}^2$ respectively

FF = a cm

Concept used:

If two triangles are similar, then the ratio of the area of both triangles is proportional to the square of the ratio of their corresponding sides.

Calculation:

As triangle ABC ~ triangle DEF

So $(BC / EF)^2 = \text{Area of AABC} / \text{Area of triangle DEF}$

$$BC^2 / (a^2) = x^2 / y^2$$

$$BC / a = x / y$$

$$BC = ax / y$$

So, BC (in cm) is ax/y

Question 85 :

The average of the marks of 25 students in a class, in an examination, was calculated to be 19. Later, the teacher realized that the marks of two students were taken as 18 and 19 respectively, instead of 14 and 15. Find the new actual average marks of the class.

Difficulty : Moderate

Average Time : 79 Seconds

Options :

1. 17.43



16.56

3. 18.68

4. 17.65

Solution :

The correct answer is **option 3** i.e. **18.68**.

Given:

The average of the marks of 25 students in a class, in an examination, was calculated to 19.

The wrong marks are 18 and 19

The correct marks are 14 and 15

Concept used:

Average Sum of elements/Number of elements

Calculation:

Total marks of 25 students with wrong numbers = 25×19

475

Correct total = $475 \times (18 + 19) + 14 + 15$

$475 - 37 + 29$

467

So, new average = $467/25$

18.68

So, The new actual average mark of the class is 18.68.

Question 86 :

Simplify $X^9 \times X^5 \times X^{-4} \times X^0 \times X^{-6}$

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. x^4



x^{-4}

3. x^{-6}

4. x^6

Solution :

The correct answer is **option 1** i.e. x^4

Given:

$$x^9 \times x^5 \times x^{-4} \times x^0 \times x^{-6}$$

Concept used:

$$x^a \times x^b = x^{(a+b)}$$

$$x^a / (x^b) = x^{(a-b)}$$

Calculation:

$$x^9 \times x^5 \times x^{-4} \times x^0 \times x^{-6}$$

$$x^5 \times x^3 \times 1/x^{-4} \times 1 \times 1/x^6$$

$$x^9 \times x \times 1/x^6$$

$$x^9 \times 1/x^5$$

$$x^4$$

Question 87 :

The value of $(\sin 30^\circ \cos 60^\circ - \cos 30^\circ \sin 60^\circ)$ is equal to:

Difficulty : Moderate**Average Time : 76 Seconds****Options :**

1. $1/2$.

2. $-1/2$.

3. 1

4. -1

Solution :



The correct answer is **option 2** i.e. $-1/2$

We know that:

$$\sin(A + B) = \sin A \cos B + \cos A \sin B$$

Using this formula, we can rewrite the expression as:

$$\sin(30^\circ + 60^\circ) = \sin 90^\circ = 1$$

Now, we can use the following trigonometric values:

$$\sin 30^\circ = 1/2$$

$$\cos 60^\circ = 1/2$$

$$\cos 30^\circ = 3/2$$

$$\sin 60^\circ = 3/2$$

Substituting these values, we get:

$$(\sin 30^\circ \cos 60^\circ - \cos 30^\circ \sin 60^\circ) = (1/2)(1/2) - (3/2)(3/2)$$

Simplifying this expression, we get:

$$(1/4) - (3/4) = -1/2$$

Therefore, the value of $(\sin 30^\circ \cos 60^\circ - \cos 30^\circ \sin 60^\circ)$ is equal to $-1/2$.

Question 88 :

What is the ratio of the mean proportional between 1.6 and 3.6 and the third proportional of 5 and 8?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. 2 : 15

2. 5 : 16

3. 3 : 16

4. 4 : 15

Solution :

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

Formula Used:

For 2 numbers a,b,

Mean proportion = ab

Third proportion = b^2/a

Calculation:

Mean proportion of 1.6 and 3.6 = (1.6×3.6)

2,4

The third proportion of 5 and 8,

$64/5$

Required ratio = $(2.4: 64/5) = 12 : 64$

3 : 16

The required answer is 3 : 16.

Question 89 :

The difference between the cost price and the selling price of a pair of shoes is Rs.1,200. If the profit is 15%, and the selling price is:

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Rs.8,200
2. Rs.9,200
3. Rs.8,000
4. Rs.9,000

Solution :

The correct answer is **option 2** i.e. **Rs.9,200**.

Let's assume that the cost price of the pair of shoes is 'C' and the selling price is 'S'.

Given that the difference between the cost price and the selling price is Rs.1,200.

So we can write the equation:

$$S - C = 1200$$

Also, given that the profit is 15%. We know that the profit percentage is given by:

Profit Percentage = (Profit/Cost Price) × 100

We can rearrange this formula as:

Profit = (Profit Percentage / 100) × Cost Price

So, the profit earned on this pair of shoes would be:

Profit = (15/100) × C = 0.15C

We know that the profit earned is equal to the selling price minus the cost price. So we can write another equation:

S - C = 0.15C

Substituting the value of S - C from the first equation, we get:

1200 = 0.15C

Simplifying this equation, we get:

C = 8000

So, the cost price of the pair of shoes is Rs.8,000.

Substituting the value of C in the first equation, we get:

S - 8000 = 1200

Simplifying this equation, we get:

S = 9200

Therefore, the selling price of the pair of shoes is Rs.9,200.

Question 90 :

A person lent a certain sum of money at the annual rate of 25 percent on simple interest. In 6 years the interest amounted to Rs.360 more than the sum lent. What is the sum lent?

Difficulty : Moderate

Average Time : 95 Seconds

Options :

1. Rs.600
2. Rs.360
3. Rs.720
4. Rs.540

**Solution :**

The correct answer is **option 3** i.e. **Rs.720**.

Let's assume that the principal amount that was lent is 'P'.

The annual rate of interest is 25%, which means the interest for a year would be 0.25P.

Since the interest is simple interest, the interest for 6 years would be 6 times the interest for a year, i.e., 1.5P.

According to the problem, the interest for 6 years amounted to Rs.360 more than the sum lent. So we can write the equation:

$$1.5P = P + 360$$

Simplifying this equation, we get:

$$0.5P = 360$$

$$P = 720$$

Therefore, the sum lent was Rs.720.

Question 91 :

The side of an equilateral triangle is 12 cm. What is the radius of the circle circumscribing this equilateral triangle?

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 63 cm
2. 43 cm
3. 93 cm
4. 53 cm

Solution :

The correct answer is **option 2** i.e. **43 cm**

Given:

The side of an equilateral triangle is 12 cm.

Concept used:

The radius of a circle circumscribing an equilateral triangle = side/3

Calculation:

According to the concept,

Radius of the circle = $12/3$

$(4 \times 3)/3$

$33 \times 3 = (V3)2$

$4 \times (3)2/3$

43

The radius of the circle circumscribing this equilateral triangle is 43 cm.

Question 92 :

The following table shows of different items in different shops and respective spelling prices per unit. Find the percentage of total reverse which comes from cooler from shop E, Considering all given items are being sold from shop E and from all the given shops only given three items are being sold (rounded off to three decimal places)

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. 4.226%
2. 3.516%
3. 10.45%
4. 8.910%

Solution :

The correct answer is **option 1** i.e. **4.226%**

Calculation:

Total cooler sold by shop E = $4000 \times (1/10)$

400

Selling price of 400 coolers = 400×8000

3200000

Total ACs sold by shop E = $4000 \times (5/10)$

2000

Selling price of 2000 ACS = 2000×26500



Total Fans sold by shop E = $4000 \times (4/10)$

1600

Selling price of 1600 Fans = 1600×12200

19520000

Now,

Required % = $[3200000 / (3200000 + 53000000 + 19520000)] \times 100$

$[3200000 / (75720000)] \times 100$

4.226 4.23%

Question 93 :

The following table shows the marks (in percentage) obtained by six students in four subjects in an examination. Maximum marks in each subject are 100. What is the number of students whose overall percentage obtained is 80% and above?

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. 4

2. 5

3. 2

4. 3

Solution :

The correct answer is **option 1** i.e. 4.

Calculation:

Overall percentage obtained by A = $(92 + 90 + 90 + 80) / 400 \times 100\% = 88\%$

Overall percentage obtained by B = $(90 + 80 + 85 + 85) / 400 \times 100\% = 85\%$

Overall percentage obtained by G = $(80 + 80 + 65 + 70) / 400 \times 100\% = 73.75\%$

Overall percentage obtained by D = $(85 + 80 + 82 + 75) / 400 \times 100\% = 80.5\%$

Overall percentage obtained by E = $(80 + 75 + 75 + 85) / 400 \times 100\% = 78.75\%$

Overall percentage obtained by F = $(90 + 90 + 90 + 85) / 400 \times 100\% = 88.75\%$



Here, A, B, D, and F have obtained more than 80% overall percentages.

So, The number of students whose overall percentage obtained is 80% and above is 4.

Question 94 :

The table given below shows the number of persons participating in a survey from 6 different states. What is the ratio of the number of people participating in a survey from state S3 to the a number of people participating in a survey from state S4?

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

1. 3 : 5
2. 5 : 4
3. 4 : 3
4. 4 : 5

Solution :

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

Calculation:

Now, the ratio of the number of people participating in a survey from state S3 to the number of people participating in a survey from state S4 = $400 : 500 = 4:5$ The ratio of the number of people participating in a survey from state S3 to the number

of persons participating in a survey from state S4 is 4 : 5.

Question 95 :

What is the remainder when 8127 is divided by 8?

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

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

Solution :



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

Calculation:

8127

$8000 + 120 + 7$

Here, both 8000 and 120 are divisible by 8.

Now, the remainder when 8127 is divided by 8 is 7

Therefore, the remainder when 8127 is divided by 8 is 7.

Question 96 :

A, B and C can complete a piece of work separately in 10, 20 and 40 days, respectively. In how many days will the work be completed if A is assisted by both B and C every third day?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. 58/7

2. 9

3. 32/3

4. 6

Solution :

The correct answer is **option 1** i.e. **58/7**.

Given:

A, B, and C can complete a piece of work separately in 10, 20, and 40 days, respectively.

A is assisted by both B and C every third day to complete the work.

Total work = Efficiency (Work done per day) × Total time taken

Calculation:

$LCM(10, 20, 40) = 40$

Let the total work be 40 units.

Efficiency of A = $40/10 = 4$ units

Efficiency of B = $40/20 = 2$ units

Efficiency of C = $40/40 = 1$ unit

In a set of 3 days, total work done = $4 \times 2 + (4 + 2 + 1) = 15$ units

In such two sets of 3 days, total work done = $15 \times 2 = 30$ units

For the next 2 days, total work will be done = $30 + 4 + 4 = 38$ units

40-38 Now, time is taken to complete the work entirely = $3 \times 2 + 2 + (40 - 38) / 4 + 2 + 1 = 58/7$ days

∴ The work will be completed in $58/7$ days.

Question 97 :

What is $\sin A - \sin B$?

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. $2\cos \frac{\alpha+\beta}{2} \sin \frac{\alpha-\beta}{2}$

2. $2\sin \frac{\alpha+\beta}{2} \sin \frac{\alpha-\beta}{2}$

3. $2\cos \frac{\alpha-\beta}{2} \sin \frac{\alpha+\beta}{2}$

4. $2\cos \frac{\alpha+\beta}{2} \cos \frac{\alpha-\beta}{2}$

Solution :

$$2\cos \frac{\alpha+\beta}{2} \sin \frac{\alpha-\beta}{2}$$

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

Calculation:

The formula of $\sin A - \sin B$ is given by $2\cos \left(\frac{A+B}{2} \right) \times \sin \left(\frac{A-B}{2} \right)$

Question 98 :



A hemisphere of lead of radius 4 cm is cast into a right circular cone of height 72 cm. What is the radius of the base of the cone?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. 1.63 cm
2. 1.35 cm
3. 1.33 cm
4. 1.45 cm

Solution :

The correct answer is **option 3** i.e. **1.33 cm**.

Given:

A hemisphere of lead of radius 4 cm is cast into a right circular cone of height 72 cm.

Concept used:

1. Volume of hemisphere $2 \times \text{Radius}^3$
2. Volume of a cone = $(\pi \times \text{Radius}^2 \times \text{Height})/3$
3. The volume of the hemisphere must be equal to the volume of the cone.

Calculation:

$$\begin{aligned} \text{The volume of the hemisphere} &= (2 \times 4^3)/3 \\ &= 128/3 \text{ cm}^3 \end{aligned}$$

Let the radius of the base of the right circular cone be R cm.

According to the concept,

$$128/3 \text{ cm}^3 = (\pi \times R \times 72)/3$$

$$R^2 = 16/9$$

$$R = 4/3$$

$$R = 1.33$$

The radius of the base of the cone is 1.33 cm.

**Question 99 :**

If the angles of a triangle are $(x - 46)$ degrees, $(x + 96)$ degrees and $8x$ degrees, then what is the value of $2x$?

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

1. 15 degrees
2. 24 degrees
3. 26 degrees
4. 13 degrees

Solution :

The correct answer is **option 3** i.e. **26 degrees**.

Given:

The angles of a triangle are $(x - 46)$ degrees, $(x + 96)$ degrees, and $8x$ degrees.

Concept used:

All internal angles of a triangle add up to 180° .

Calculation:

According to the concept,

$$(x - 46) + (x + 96) + 8x = 180$$

$$10x + 50 = 180$$

$$10x = 130$$

$$9x = 13$$

$$2x = 26$$

The value of $2x$ is 26 degrees.

Question 100 :

O is the center of this circle. Tangent drawn from a point P, touches the circle at Q. If $PQ = 24$ cm and $OQ = 10$ cm, then what is the value of OP?

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



26 cm

2. 52 cm

3. 13 cm

4. 15 cm

Solution :

The correct answer is **option 1** i.e. **26 cm**.

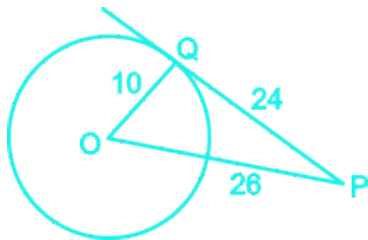
Given:

O is the center of this circle. Tangent drawn from a point P, touches the circle at Q.

PQ = 24 cm and OQ = 10 cm

Concept used:

1. If a tangent is drawn on a circle from an external point, it is perpendicular to the radius at the point of tangency.
2. In a right-angled triangle, Hypotenuse² = Base² + Height²

**Calculation:**

According to the concept,

$\angle OQP = 90^\circ$

Hence, OP is the hypotenuse of $\triangle OQP$ which is a right-angled triangle.

Now, $OP^2 = PQ^2 + OQ^2$

The value of OP is 26 cm.

Ssc Cgl Tier I Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2022-12-01 in the Noon exam is as follows:



- 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. 25 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 - 2
2. Analogy - 6
3. Classification - 1
4. Blood Relations - 2
5. Syllogism - 2
6. Dictionary Based - 1
7. Figure Based - 4
8. Series - 3
9. Mathematical Reasoning - 3
10. Cubes And Dice - 1

General Awareness

1. GK Misc - 25

Quantitative Aptitude

1. Data Interpretation - 1
2. Statistics - 1
3. Data Sufficiency - 4
4. Logarithm - 1
5. Arithmetic - 18

English Language

1. Cloze Test - 5

- Spotting Error - 1
- 3. Parajumbles - 2
- 4. Sentence Jumbles - 1
- 5. Idioms - 1
- 6. One Word Substitution - 1
- 7. Spellings - 1
- 8. Narration - 1
- 9. Sentence Improvement - 1
- 10. Synonym - 4
- 11. Filler (Vocab) - 1
- 12. Filler (Grammar) - 4
- 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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English Language
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Syllabus
Know Your State
Know Your Country
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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.

