



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 2023-10-27 in the Morning Shift exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Ssc Cgl Tier I exam. There are 100 questions in the exam and 60 minutes are provided for the Ssc Cgl Tier I exam. The Cutoff of the exam was 140 marks hence you should try to score at least 150 marks.

Ssc Cgl Tier I Previous Year Question Paper : Questions and Solutions

Question 1 :

Select the 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. TABLE: FNEEY:: CROWN: OYRVH:: BEAUTY:?

Difficulty : Moderate Average Time : 50 Seconds

Options :

1. YTUEJH
2. YTUAEB
3. ZVXEJH
4. ZUVBFC

Solution :

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

The logic used here is:

TABLE: FNEEY

First, reverse the code.



TABLE = YEENF

T + 5 = Y

A + 4 = E

B + 3 = E

L + 2 = N

E + 1 = F

CROWN: OYRVH

CROWN = HVRYO

C + 5 = H

R + 4 = V

O + 3 = R

W + 2 = Y

N + 1 = O

Similarly,

BEAUTY:?

B + 6 = H

E + 5 = J

A + 4 = E

U + 3 = X

T + 2 = V

Y + 1 = Z

BEAUTY = ZVXEJH





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

Question 2 :

Which of the following numbers will replace the question mark (?) in the given series? 11, ?, 20, 29, 41, 56

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

Options :

1. 16

2. 13

3. 15

4. 14

Solution :

The correct answer is **Option 4** i.e. **14**.

Given series: 11, ?, 20, 29, 41, 56

The series follows this pattern:

$$11 + 3 = 14$$

$$14 + 6 = 20$$

$$20 + 9 = 29$$

$$29 + 12 = 41$$

$$41 + 15 = 56$$

So, the missing term in the series is **14**.

Question 3 :

Select the correct mirror image of the given figure when the mirror is placed on the right side of the figure.

Difficulty : Moderate Average Time : 41 Seconds

Options :



Solution :



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

The mirror image of the question figure is shown below:



Since the mirror is placed below the question figure, the bottom side of the original image will now be the top side of the mirror image and vice versa.

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

Question 4 :

The second number in the given number pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) is/are followed in all the number pairs except one. Find that odd number pair.

Difficulty : Moderate Average Time : 85 Seconds

Options :

1. 7: 46
2. 13: 166
3. 9: 78
4. 48: 144

Solution :

The correct answer is **Option 4** i.e. **48: 144**.

The logic used here is:

$$(1st\ number)^2 - 3 = 2nd\ number$$

Option 1: 7: 46

$$7^2 - 3 = 49 - 3 = 46$$

This follows the logic.

Option 2: 13: 166

$$13^2 - 3 = 169 - 3 = 166$$

This follows the logic.

Option 3: 9: 78

$$9^2 - 3 = 81 - 3 = 78$$

This follows the logic.

Option 4: 48: 144

$$48^2 - 3 = 2304 - 3 = 2301$$

This does not follow the logic.

Hence, **48: 144** is the odd one out.

Question 5 :

Priya pointed towards a man and said that he is her brother's paternal grandmother's only child. How is the man related to Priya?

Difficulty : Moderate Average Time : 59 Seconds

Options :

1. Brother
2. Paternal grandfather
3. Father

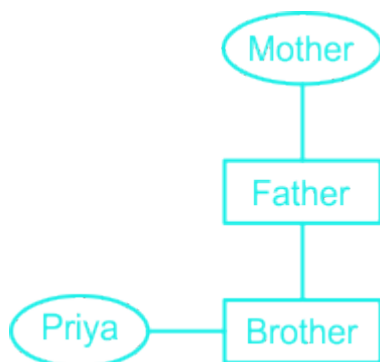
Son

Solution :

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

In the diagram shown;

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



From the above figure, the man is the father of Priya.

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

Question 6 :

Which of the following letter clusters can replace the question mark (?) in the given series to make it logically complete? MIT, JEQ, GAN, DWK, ?

Difficulty : Moderate Average Time : 56 Seconds

Options :

1. ASH
2. YRG
3. ZRI

YSJ

Solution :

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

Given series: MIT, JEQ, GAN, DWK,?

The series follows this pattern:

MIT, JEQ

M - 3 = J

I - 4 = E

T - 3 = Q

Similarly;

DWK,?

D - 3 = A

W - 4 = S

K - 3 = H

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

Question 7 :

In a certain code language, "LAMP" is written as "66" and "OATS" is written as "53". How will "YESS" be written in that language?

Difficulty : Moderate Average Time : 56 Seconds

Options :

1. 51

55

3. 45

4. 40

Solution :

The correct answer is **Option 4** i.e. **40**.

The logic used here is:

"LAMP" is written as "66"

Opposite of L = O = 15

Opposite of A = Z = 26

Opposite of M = N = 14

Opposite of P = K = 11

LAMP = 15 + 26 + 14 + 11 = 66

"OATS" is written as "53"

Opposite of O = L = 12

Opposite of A = Z = 26

Opposite of T = G = 7

Opposite of S = H = 8

LAMP = 12 + 26 + 7 + 8 = 53

Similarly;

Code for the word YESS:

Opposite of Y = B = 2

Opposite of E = V = 22

Opposite of S = H = 8

Opposite of S = H = 8

LAMP = 2 + 22 + 8 + 8 = 40

Hence, **40** is the correct answer.

Question 8 :

In a certain code language, 'THIN' is coded as '1723', and 'WITH' is coded as '2417'. What is the code for 'W' in the given code language?

Difficulty : Moderate Average Time : 76 Seconds

Options :

1. 4

2. 1

3. 7

4. 2

Solution :

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

The logic used here is:

'THIN' is coded as '1723'

'WITH' is coded as '2417'

Code for the letter T/H/I = 1/7/2

So, **Code for the letter W = 4**

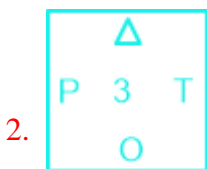
Hence, 4 is the correct answer.

Question 9 :

Select the figure from the options that can replace the question mark (?) and complete the given pattern.

Difficulty : Moderate Average Time : 45 Seconds

Options :



Solution :



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

In step 1, column elements (T, O, 3) interchange their places in themselves. Top element shifts to middle, middle

shifts to bottom and bottom shift to top. Left and right elements (P & triangle) interchange their places. left shifts to right and vice-versa.

Step 2, column elements: Top & bottom elements interchange their places. Triangle moves to middle, T moves to rightmost in middle row and P moves to leftmost of the same row.

Now, step 1 repeats itself and then step 2 repeats after step 1 in the next arrangement. It means step 1 and step 2 is used alternatively. So, option 1 is correct.

Question 10 :

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. 9: 79::11: 119:: 7:?

Difficulty : Moderate Average Time : 89 Seconds

Options :

1. 41

2. 49

3. 47

4. 51

Solution :

The correct answer is **Option 3** i.e. **47**.

The logic used here is:

9: 79

$$9^2 - 2 = 81 - 2 = 79$$

11: 119

$$11^2 - 2 = 121 - 2 = 119$$

Similarly,

7:?

$$7^2 - 2 = 49 - 2 = 47$$

Hence, **47** is the correct answer.

Question 11 :

Select the option that represents the correct order of the given words as they would appear in an English dictionary. 1.

Banished 2. Bandage 3. Bannister 4. Bankrupt 5. Bandwagon 6. Banquet

Difficulty : Moderate Average Time : 49 Seconds

Options :

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

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

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

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

Solution :

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

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

2. **Bandage**

5. **Bandwagon**

1. **Banished**

4. **Bankrupt**

3. **Bannister**

6. Banquet

Question 12 :

Three statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements. Statements: All pencils are colours. All colours are paints. Some paints are drawings.

Conclusions: I. Some pencils are drawings. II. Some paints are colours. III. Some colours are pencils.

Difficulty : Moderate Average Time : 62 Seconds

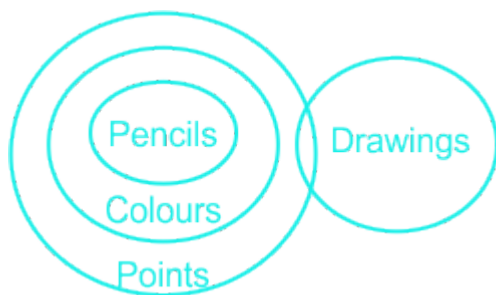
Options :

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

Solution :

The correct answer is **Option 2** i.e. **Only conclusions II and III follow.**

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



Conclusions:

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

II. Some paints are colours **True** (As all colours are paints, so, some paints are colours is also true.)

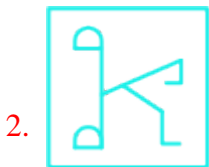
III. Some colours are pencils **True** (As all pencils are colours, so, some colours are pencils is also true.)

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

Question 13 :

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

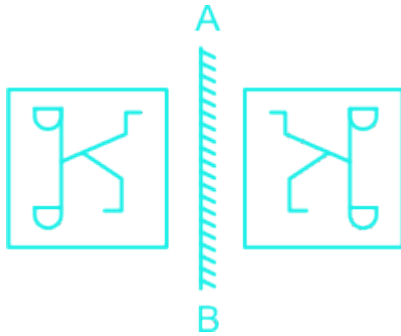
Difficulty : Moderate Average Time : 73 Seconds

Options :**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 14 :

Select the option that represents the letters that, when placed from left to right in the following blanks, will complete the letter-series. Z X C _ B Z _ _ V B _ X E V _ Z _ _ V B

Difficulty : Moderate Average Time : 83 Seconds

Options :

1. U Y E Z B X F
2. U X D Z B X F
3. V Y E Z B X G
4. V X D Z B X F

Solution :

The correct answer is **Option 1** i.e. **V X D Z B X F**.

The sequence is – V X D Z B X F

Given sequence: Z X C _ B Z _ _ V B _ X E V _ Z _ _ V B

Option 1: V X D Z B X F

Z X C V B / Z X D V B / Z X E V B / Z X F V B

Option 1 forms a particular pattern.

As we have found our answer, there is no need to check further options.

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

Question 15 :

Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

Difficulty : Moderate Average Time : 73 Seconds

Options :

1.

2.

3.

4.

Solution :

The correct answer is **Option 1** 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 1** is the correct answer.

Question 16 :

Select the correct combination of mathematical signs to sequentially fill in the circles and to balance the given equation. $45 \bigcirc 9 \bigcirc 3 \bigcirc 25 \bigcirc 55 \bigcirc 15$

Difficulty : Moderate Average Time : 80 Seconds

Options :

1. $\div, \times, +, =, -$
2. $\div, \times, =, +, +$
3. $+, =, \div, \times, +$
4. $\div, \times, -, =, \times$

Solution :

The correct answer is **Option 1** i.e. $\div, \times, +, =, -$.

Given equation: $45 \bigcirc 9 \bigcirc 3 \bigcirc 25 \bigcirc 55 \bigcirc 15$

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

After interchanging the expression becomes:

$$= 45 \div 9 \times 3 + 25 = 55 - 15$$



$$= 5 \times 3 + 25 = 55 - 15$$

$$= 15 + 25 = 55 - 15$$

$$= 40 = 40$$

As we have found our answer, there is no need to check further options.

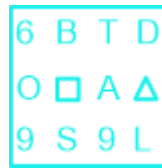
Hence, \div , \times , $+$, $=$, $-$ is the correct answer.

Question 17 :

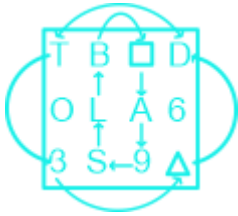
Select the figure that will replace the question mark (?) in the following figure series.

Difficulty : Moderate Average Time : 54 Seconds

Options :**Solution :**



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



Step 1:

Elements are shifting their position as shown in the above figure. The left and right element of the middle row interchanges their position. Left comes to right and right comes to left.



Step 2:

Elements are shifting their position as shown in the above figure.

Now step 1 and step 2 are used alternatively in the whole series. So, in this way only option 4 is correct.

Question 18 :

Which two numbers and two signs should be interchanged in the following equation to make it correct? $18 - 6 + 11 \times 5 + 18 = 113$

Difficulty : Moderate Average Time : 91 Seconds

Options :

1. 6 and 5, - and \times
2. 18 and 5, + and \times
3. 6 and 5, + and \times



18 and 5, - and \times

Solution :

The correct answer is **Option 1** i.e. **6 and 5, - and \times** .

Given equation: $18 - 6 + 11 \times 5 + 18 = 113$

Option 1: 6 and 5, - and \times

After interchanging the expression becomes:

$$= 18 \times 5 + 11 - 6 + 18 = 113$$

$$= 90 + 11 - 6 + 18$$

$$= 119 - 6$$

$$= 113 \text{ is equal to } 113.$$

As we have found our answer, there is no need to check further options.

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

Question 19 :

Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term. 121: 10:: 256: 15:: 441:?

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

Options :

1. 17

2. 20

3. 21

19

Solution :

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

The logic used here is:

121: 10

$$10 + 1 = 11$$

$$11^2 = 121$$

256: 15

$$15 + 1 = 16$$

$$16^2 = 256$$

Similarly,

441:?

$$20 + 1 = 21$$

$$21^2 = 441$$

Hence, **20** is the correct answer.

Question 20 :

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. For 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.) (168, 35, 143) (182, 65, 127)

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

Options :



(142, 83, 69)

2. (253, 99, 154)

3. (203, 89, 117)

4. (159, 62, 87)

Solution :

The correct answer is **Option 1** i.e. **(142, 83, 69)**.

The logic used here is:

(168, 35, 143)

$$168 - 35 = 133$$

$$133 + 10 = 143$$

(182, 65, 127)

$$182 - 65 = 117$$

$$117 + 10 = 143$$

Similarly,

(142, 83, 69)

$$142 - 83 = 59$$

$$59 + 10 = 69$$

Hence, **(142, 83, 69)** is the correct answer.

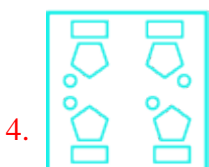
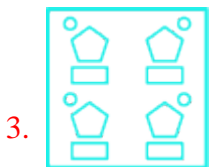
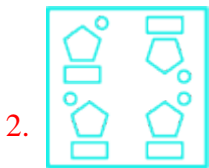
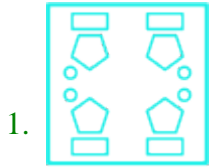
Question 21 :

The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown below. Choose the figure that would most closely resemble the unfolded form of the paper.

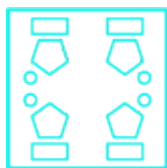


Difficulty : Moderate Average Time : 50 Seconds

Options :

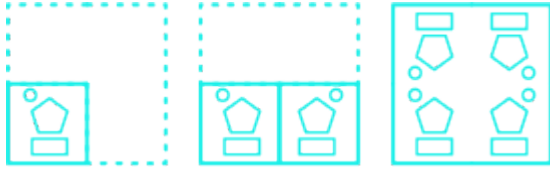


Solution :



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

After unfolding, the paper will appear as follows:



Question 22 :

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. BETTER: EBTTR:: ANSWER: NAWSRE:: ACCEPT:?

Difficulty : Moderate Average Time : 73 Seconds

Options :

1. CAECTP
2. CAECTP
3. CACPET
4. CACETP



Solution :

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

The logic used here is:

BETTER: EBTTR



ANSWER: NAWSRE

A N S W E R
N A W S R E

Similarly,

ACCEPT:?

A C C E P T
C A E C T P

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

Question 23 :

Three Statements are given followed by three conclusions numbered I, II, and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements. Statements: Some sweets are chocolates. All chocolates are cookies. Some cookies are healthy. Conclusions: I. Some sweets are cookies. II. Some cookies are chocolates. III. Some chocolates are sweets.

Difficulty : Moderate Average Time : 74 Seconds

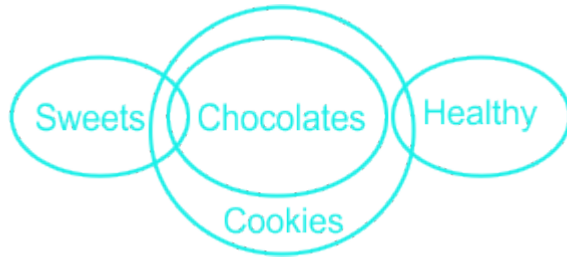
Options :

1. Both conclusions II and III follow.
2. Both conclusions I and III follow.
3. Both conclusions I and II follow.
4. All conclusions follow.

Solution :

The correct answer is **Option 2** i.e. **All conclusions follow.**

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

**Conclusions:**

I. Some sweets are cookies **True** (As some sweets are chocolates, and all chocolates are cookies, so, some sweets are cookies is also true.)

II. Some cookies are chocolates **True** (As all chocolates are cookies, so, some cookies are chocolates is also true.)

III. Some chocolates are sweets **True** (As all sweets are chocolates, so, some chocolates are sweets is also true.)

Hence, **All conclusions follow.**

Question 24 :

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. PARROT: PTRKOM:: RECIPE: RXCBPX:: RELISH:?

Difficulty : Moderate Average Time : 80 Seconds

Options :

1. HJUIOK
2. LACXIO
3. RXLBSA
4. TFSDBM

Solution :

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



The logic used here is:

PARROT: PTRKOM

P = P

A - 7 = T

R = R

R - 7 = K

O = O

T - 7 = M

RECIPE: RXCBPX

R = R

E - 7 = X

C = C

I - 7 = B

P = P

E - 7 = X

Similarly,

RELISH:?

R = R

E - 7 = X

L = L

I - 7 = B

S = S





$$H - 7 = A$$

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

Question 25 :

Select the set in which the numbers are related in the same way as the numbers of the given 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 is not allowed.) (9, 26, 53) (8, 23, 47)

Difficulty : Moderate Average Time : 77 Seconds

Options :

1. (5, 14, 29)
2. (6, 17, 36)
3. (11, 32, 56)
4. (7, 20, 42)

Solution :

The correct answer is **Option 1** i.e. (5, 14, 29).

The logic used here is:

(9, 26, 53)

$$9 \times 3 - 1 = 27 - 1 = 26$$

$$26 \times 2 + 1 = 52 + 1 = 53$$

(8, 23, 47)

$$8 \times 3 - 1 = 24 - 1 = 23$$

$$23 \times 2 + 1 = 46 + 1 = 47$$

Option 1:(5, 14, 29)

$$5 \times 3 - 1 = 15 - 1 = 14$$

$$14 \times 2 + 1 = 28 + 1 = 29$$

Hence, **(5, 14, 29)** is the correct answer.

Question 26 :

In which state is the Chithirai festival celebrated?

Difficulty : Moderate Average Time : 44 Seconds

Options :

1. Punjab
2. Tamil Nadu
3. Rajasthan
4. Meghalaya

Solution :

The correct answer is **option 2** i.e. **Tamil Nadu**.

- The Chithirai festival is predominantly celebrated in the state of Tamil Nadu, India. It is a significant annual festival that takes place in the city of Madurai, specifically at the Meenakshi Amman Temple.
- The Chithirai festival, held in the Tamil month of Chithirai (April-May), is known for its grand procession, colorful celebrations, and cultural events.
- The festival commemorates the divine marriage of Goddess Meenakshi and Lord Sundareswarar, attracting devotees and tourists from various parts of the country.

Question 27 :

Kalbelia dance is generally performed in which of the following states of India?

Difficulty : Moderate Average Time : 54 Seconds

**Options :**

1. Tamil Nadu
2. Punjab
3. Rajasthan
4. Assam

Solution :

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

- The Kalbelia dance is generally performed in the state of Rajasthan, India. The Kalbelia community, traditionally snake charmers, performs this folk dance, which is known for its graceful movements and vibrant costumes.
- The dance form has been recognized as an intangible cultural heritage by UNESCO. Rajasthan, with its rich cultural heritage, is a hub for various traditional dance forms, and Kalbelia is a prominent one among them.

Question 28 :

The rule of the English East India company was ended in British India under the Government of India Act, _____.

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

Options :

1. 1858
2. 1857
3. 1859
4. 1856

**Solution :**

The correct answer is **option 1** i.e. **1858**.

- The rule of the English East India Company in British India ended following the enactment of the Government of India Act of 1858. The act marked a significant shift in the governance of India, transferring control from the East India Company to the British Crown.
- This transition, known as the beginning of the British Raj, established direct rule by the British government over India.

Question 29 :

Which of the following is a highly electropositive element that readily gives up an electron in order to obtain a stable electronic configuration?

Difficulty : Moderate Average Time : 52 Seconds

Options :

1. Cl
2. O
3. Na
4. N

Solution :

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

- A highly electropositive element that readily gives up an electron in order to obtain a stable electronic configuration is typically found among alkali metals. Alkali metals, such as sodium (Na), potassium (K), and cesium (Cs), are known for their high electropositivity.
- They have one electron in their outermost electron shell, which they readily lose to achieve a stable electronic configuration.

Question 30 :



The famous scientist, Albert Einstein, was inspired by whose idea of non-violence?

Difficulty : Moderate Average Time : 49 Seconds

Options :

1. Mahatma Gandhi
2. Vardhaman Mahavira
3. Gautam Buddha
4. BR Ambedkar

Solution :

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

- Albert Einstein, the famous scientist, was inspired by Mahatma Gandhi's idea of non-violence. Albert Einstein and Mahatma Gandhi corresponded and exchanged letters, and Einstein expressed admiration for Gandhi's philosophy of non-violent resistance.
- Einstein, who was known for his contributions to physics, also valued Gandhi's teachings on moral and ethical principles, particularly the concept of non-violence as a means of social and political change.

Question 31 :

Which of the following is INCORRECTLY matched?

Difficulty : Moderate Average Time : 50 Seconds

Options :

1. Montane climate - Uttar Pradesh, Bihar and Jharkhand
2. Tropical monsoon climate - The Western Ghats, the Malabar Coast and southern Assam
3. Tropical semi-arid (steppe) climate - Karnataka, central Maharashtra, some parts of Tamil Nadu and Andhra



Pradesh

4. Hot deserts, arid climate - Rajasthan and some parts of Gujarat

Solution :

The correct answer is **option 1** i.e. **Montane climate - Uttar Pradesh, Bihar and Jharkhand.**

- The statement "Montane climate - Uttar Pradesh, Bihar, and Jharkhand" is incorrect. A montane climate is typically associated with mountainous regions, characterized by cooler temperatures as elevation increases. Uttar Pradesh, Bihar, and Jharkhand are primarily lowland areas with no significant mountain ranges.
- Therefore, these states do not experience a montane climate.

Question 32 :

Diwan-i-Arz was essentially the department of _____ under Delhi Sultanate.

Difficulty : Moderate Average Time : 59 Seconds

Options :

1. financial services
2. court ceremonies
3. military services
4. royal karkhanas

Solution :

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

- Diwan-i-Arz, under the Delhi Sultanate, was essentially the department or office responsible for military affairs or the army.
- It served as the military department where matters related to the army, including recruitment, salaries, and other administrative functions, were dealt with. The term "Diwan-i-Arz" can be translated to mean "Office of the Military."

Question 33 :



What is the full form of IADP?

Difficulty : Moderate Average Time : 48 Seconds

Options :

1. Intensive Agricultural District Programme
2. Indian Agricultural Development Programme
3. Integrated Agricultural District Plan
4. Intensive Agricultural Development Project

Solution :

The correct answer is **option 1** i.e. **Intensive Agricultural District Programme**.

- The full form of IADP is Intensive Agricultural District Programme.
- The Intensive Agriculture District Programme (IADP) was begun as the first major observation in intensive agriculture development in the year 1960.
- It had covered all the important cash crops grown in the districts although attention was to be laid on the dominant food - grain crops such as paddy, wheat and millets.

Question 34 :

Who among the following has been appointed as the new Chairperson of the National Company Law Appellate Tribunal (NCLAT), for a period of four years or until he attains the age of 70 years, whichever is the earliest in November 2021?

Difficulty : Moderate Average Time : 62 Seconds

Options :

1. Justice Vikram Nath
2. Justice BV Nagarathna



Justice Ashok Bhushan

4. Justice Abhay Oka

Solution :

The correct answer is **option 3** i.e. **Justice Ashok Bhushan**.

- The Government has appointed Justice Ashok Bhushan as the Chairperson of the National Company Law Appellate Tribunal (NCLAT) and Justice R. Sudhakar as the President of the National Company Law Tribunal (NCLT).
- NCLAT, established under Section 410 of the Companies Act, 2013, holds significant importance as a quasi-judicial body responsible for adjudicating appeals against orders issued by the National Company Law Tribunal(s) (NCLT).

Question 35 :

Under which policy has the Union Ministry of Power launched a scheme for procurement of aggregate power of 4500 MW for five years?

Difficulty : Moderate **Average Time : 55 Seconds**

Options :

1. Urja Sanchay Policy
2. Shakti Policy
3. Nai Urja Policy
4. Gatishakti Policy

Solution :

The correct answer is **option 2** i.e. **Shakti Policy**.

- The scheme for the procurement of aggregate power of 4500 MW for five years, launched by the Union Ministry of Power, is associated with the "Pilot Scheme-II" under the Ministry's umbrella initiative called the



"Scheme for Procurement of Aggregate Power of 2500 MW Followed by a Reverse Auction Process."

- This initiative aims to promote flexibility in the scheduling of thermal power stations, leading to better grid management and resource optimization.

Question 36 :

Which element was arbitrarily assigned a value of 4.0 in the 'Halogens' section in 1922 by Linus Pauling, an American scientist?

Difficulty : Moderate Average Time : 56 Seconds

Options :

1. Fluorine
2. Iodine
3. Astatine
4. Bromine

Solution :

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

- In 1922, Linus Pauling, an American scientist, arbitrarily assigned the electronegativity value of 4.0 to fluorine. Electronegativity is a measure of the tendency of an atom to attract a bonding pair of electrons.
- Pauling's electronegativity scale, although somewhat arbitrary, has been widely used as a reference to compare the relative electronegativities of different elements. Fluorine, being the most electronegative element, was chosen as the reference point with the value of 4.0.

Question 37 :

The MITRA scheme was first announced in the Union Budget for 2021-22 to set up world-class infrastructure in which sector?

Difficulty : Moderate Average Time : 54 Seconds

Options :



Automobiles

2. Textile industry

3. Defence manufacturing

4. Pharmaceuticals

Solution :

The correct answer is **option 2** i.e. **Textile industry**.

- The "MITRA" scheme was introduced in the Union Budget for 2021-22 by Finance Minister Nirmala Sitharaman with a specific focus on the textile sector. MITRA, which stands for "Mega Investment Textiles Parks," aims to develop top-notch infrastructure within the textile industry, fostering employment growth and enhancing export capabilities.
- The objective is to establish seven textile parks within a span of three years, creating a globally competitive industry equipped with state-of-the-art technology and advanced infrastructure.

Question 38 :

Where in India are the Sundari trees that provide durable and hard timber found?

Difficulty : Moderate Average Time : 55 Seconds

Options :

1. Tropical Deciduous Forests

2. Mangrove Forests

3. Montane Forests

4. Tropical Evergreen Forests

Solution :



The correct answer is **option 2** i.e. **Mangrove Forests**.

Sundari trees, known for their durable and hard timber, are primarily found in the Sundarbans, a mangrove forest region located in the delta of the Ganges, Brahmaputra, and Meghna rivers in India and Bangladesh. These trees thrive in the saline and brackish water conditions of the Sundarbans, making them well-suited to the unique environment of this coastal area. The Sundarbans, renowned for its biodiversity and ecological significance, is a UNESCO World Heritage Site.

Question 39 :

Which of the following is NOT included in domestic income?

Difficulty : Moderate Average Time : 53 Seconds

Options :

1. Income earned by the residents of the country
2. Income earned by the non-residents outside the country
3. Income earned by all the employees of the country
4. Profit of all the industries of the country

Solution :

The correct answer is **option 2** i.e. **Income earned by the non-residents outside the country**.

- Domestic income, synonymous with Gross Domestic Product (GDP), encompasses the overall income generated by all sectors—households, businesses, and the government—within a country's geographical boundaries, regardless of their residency status.
- However, income acquired by non-residents beyond the nation's borders is excluded from domestic income. Instead, such earnings are considered part of the national income, distinct from the domestic income calculation.

Question 40 :



As per National Family Health Survey (NFHS 5) 2019-21, what percentage of women have a bank or savings account that they themselves use?

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

Options :

1. 68.3%
2. 78.6%
3. 87.7%
4. 58.5%

Solution :

The correct answer is **option 2** i.e. **78.6%**.

- As per National Family Health Survey (NFHS 5) 2019-21, 78.6% of women have a bank or savings account that they themselves use.
- This statistic reflects a positive trend towards financial inclusion for women in India. Having a personal bank or savings account is a key indicator of financial independence and empowerment, allowing women to manage their finances, save money, and participate more actively in economic activities.

Question 41 :

Tansen, who was included in the Navaratnas of Akbar, was an expert in playing which of the following musical instruments?

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

Options :

1. Nagada
2. Veena

Sarangi

4. Rabab

Solution :

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

- Tansen, one of the Navaratnas (Nine Jewels) at the court of Akbar, was an expert in playing the musical instrument called the "rabab."
- The rabab is a stringed musical instrument and Tansen was renowned for his exceptional skill in playing it.
- Tansen's contributions to Indian classical music and his association with Akbar's court are legendary, making him a central figure in the history of Indian music.

Question 42 :

Match the following countries with respect to their ranking on the Global Hunger Index 2022 out of 121 countries.
Country Rank 1. India a. 99 2. Pakistan b. 107 3. Nepal c. 81

Difficulty : Moderate Average Time : 55 Seconds

Options :

1. 1-c, 2-a, 3-b
2. 1-b, 2-c, 3-a
3. 1-a, 2-b, 3-c
4. 1-b, 2-a, 3-c

Solution :

The correct answer is **option 4** i.e. **1-b, 2-a, 3-c**.

- As of October 14, 2022, India has been positioned at 107th out of 121 countries in the 2022 Global Hunger



- Index (GHI). In the previous year, 2021, India held the 101st position among 116 countries surveyed.
- Notably, India's ranking is lower than that of neighboring countries, with Pakistan at 99th, Nepal at 81st, and Bangladesh at 84th.
 - The Global Hunger Index, published by Concern Worldwide and Welthungerhilfe, serves as a measure of hunger levels and malnutrition worldwide.

Question 43 :

Mitochondria is NOT found in_____.

Difficulty : Moderate Average Time : 54 Seconds

Options :

1. yeast
2. bacteria
3. algae
4. fungi

Solution :

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

- Mitochondria are not found in prokaryotic cells. Prokaryotic cells, which include bacteria and archaea, lack membrane-bound organelles, including mitochondria.
- Mitochondria are double-membraned organelles found in the cells of eukaryotes, such as animals, plants, fungi, and protists. They play a crucial role in cellular respiration, producing energy in the form of adenosine triphosphate (ATP).

Question 44 :

Which of the following pairs is/are correctly matched regarding the terminology used in the Parliament?

- A.Appropriation Bill - A Money Bill passed for providing for the withdrawal or appropriation from and out of the Consolidated Fund of India
B.Demand for Grants - Earmarking of budgetary allocation for meeting only planned expenditure of a Ministry/Department
C.Short Duration Discussion - For raising a discussion on a matter of urgent public importance for which a notice has to be given by a Member and supported by 50 Members



Difficulty : Moderate Average Time : 67 Seconds

Options :

1. A, B and C
2. B and C only
3. A only
4. A and C only

Solution :

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

- A. Appropriation Bill - This correctly paired option signifies that the Appropriation Bill is indeed a Money Bill designed for the withdrawal or appropriation from the Consolidated Fund of India.
- B. Demand for Grants and C. Short Duration Discussion - are inaccurately matched in the given context. "Demands for Grants" entail estimates of expenditure from the Consolidated Fund of India, presented to the Lok Sabha for approval on a ministry-wise basis.
- On the other hand, a "Short Duration Discussion" in the Indian parliament refers to a discussion on a matter of urgent public importance, necessitating prior notice but not requiring support from 50 members. Therefore, these pairings are not accurate in the provided context.

Question 45 :

Sangeet Natak Akademi Award (Akademi Puraskar) for the year 2020 was awarded to Meenakshi Chitharanjan for her contribution to which of the following?

Difficulty : Moderate Average Time : 70 Seconds

Options :

1. Bharatanatyam



Odissi

3. Manipuri

4. Kuchipudi

Solution :

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

- Meenakshi Chitharanjan was awarded the Sangeet Natak Akademi Award (Akademi Puraskar) for the year 2020 for her contribution to the field of Bharatanatyam.
- The Sangeet Natak Akademi Awards are prestigious honors in the field of performing arts in India, and Meenakshi Chitharanjan received recognition for her significant contributions to the classical dance form of Bharatanatyam.

Question 46 :

Select the INCORRECT statement about Phylum Arthropoda.

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

Options :

1. Class Insecta is the largest class of Phylum Arthropoda.
2. Lignin is the main component of the exoskeletons of arthropods.
3. Over 85% of all the known animal species are arthropods.
4. Phylum Arthropoda comprises a wide diversity of animals with hard exoskeletons and jointed appendages.

Solution :

The correct answer is **option 2** i.e. **Lignin is the main component of the exoskeletons of arthropods**.



The INCORRECT statement about Phylum Arthropoda is:

- "Lignin is the main component of the exoskeletons of arthropods."
- This statement is incorrect because the main component of the exoskeletons of arthropods is chitin, not lignin. Chitin is a complex polysaccharide that provides strength and flexibility to the exoskeletons of arthropods, including insects, crustaceans, and arachnids. Lignin, on the other hand, is a complex organic compound found in the cell walls of plants and is not a major component of arthropod exoskeletons.

Question 47 :

_____ countries participated in the Tokyo Paralympic 2020.

Difficulty : Moderate Average Time : 65 Seconds

Options :

1. 163
2. 161
3. 164
4. 162

Solution :

The correct answer is **option 4** i.e. **162**.

- The Paralympic Games held in Tokyo in 2021, originally scheduled for 2020 but postponed due to the COVID-19 pandemic, featured the participation of 162 National Paralympic Committees, including a refugee team.
- Avani Lekhara, an Indian shooter, created history by becoming the first Indian woman to secure a gold medal at the Paralympics. She achieved this milestone in the women's 10m air rifle standing SH1 event, matching the world record score of 249.6.

Question 48 :

Who sent the Greek ambassador Megasthenes to the court of Chandragupta Maurya?



Difficulty : Moderate Average Time : 51 Seconds

Options :

1. Seleucus
2. Tolmi
3. Dionysus
4. Sikandar

Solution :

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

- The Greek ambassador Megasthenes was sent to the court of Chandragupta Maurya by Seleucus Nicator, who was a Diadochi (one of the successors of Alexander the Great) and the founder of the Seleucid Empire.
- This diplomatic mission took place during the 4th century BCE when both Chandragupta Maurya and Seleucus Nicator were prominent rulers in their respective regions.
- Megasthenes' accounts provided valuable insights into the Mauryan Empire and ancient Indian civilization.

Question 49 :

Which of the following amendment acts included Fundamental Duties in the Constitution of India?

Difficulty : Moderate Average Time : 52 Seconds

Options :

1. 40nd Amendment Act
2. 42nd Amendment Act
3. 41st Amendment Act



39th Amendment Act

Solution :

The correct answer is **option 2** i.e. **42nd Amendment Act.**

- The Fundamental Duties were included in the Constitution of India through the 42nd Amendment Act of 1976. The amendment added a new part, Part IVA, which outlines the Fundamental Duties of citizens.
- These duties were incorporated to emphasize the importance of civic and moral responsibilities among the citizens of India.

Question 50 :

Which of the following states recognise the Dahi Handi as a sports event?

Difficulty : Moderate Average Time : 51 Seconds

Options :

1. Maharashtra
2. Bihar
3. Madhya Pradesh
4. Uttar Pradesh

Solution :

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

- The state of Maharashtra in India recognizes Dahi Handi as a sports event. Dahi Handi is a popular and traditional celebration associated with the festival of Janmashtami, which marks the birth of Lord Krishna.
- In Maharashtra, especially in cities like Mumbai and Pune, Dahi Handi celebrations involve forming human pyramids to reach and break a pot filled with curd (dahi), which is suspended at a height.

Question 51 :

Find the value of the given expression. $(\frac{4}{3}) \tan^2 45^\circ + 3 \cos^2 30^\circ - 2 \sec^2 30^\circ - (\frac{3}{4}) \cot^2 60^\circ$

Difficulty : Moderate Average Time : 56 Seconds

Options :

1. $\frac{2}{3}$
2. $\frac{3}{2}$
3. $\frac{\sqrt{2}}{3}$
4. $\frac{\sqrt{3}}{2}$

Solution :

The correct answer is **Option 1** i.e. $\frac{2}{3}$.

$$\frac{4}{3} \tan^2 45^\circ + 3 \cos^2 30^\circ - 2 \sec^2 30^\circ - \frac{3}{4} \cot^2 60^\circ$$

On putting the values of trigonometric ratios

$$\tan 45^\circ = 1$$

$$\cos 30^\circ = \frac{3}{2}$$

$$\cot 60^\circ = \frac{1}{3}$$

Now,

$$\frac{4}{3} \times (1)^2 + 3 \times \left(\frac{\sqrt{3}}{2}\right)^2 - 2 \times \left(\frac{2}{\sqrt{3}}\right)^2 - \frac{3}{4} \times \left(\frac{1}{\sqrt{3}}\right)^2$$

$$\frac{4}{3} + 3 \times \left(\frac{3}{4}\right) - 2 \times \left(\frac{4}{3}\right) - \frac{3}{4} \times \left(\frac{1}{3}\right)$$

$$\frac{4}{3} + \left(\frac{9}{4}\right) - \left(\frac{8}{3}\right) - \frac{1}{4}$$

$$\frac{16}{12} + \left(\frac{27}{12}\right) - \left(\frac{32}{12}\right) - \frac{3}{12} = \frac{8}{12} = \frac{2}{3}$$

Question 52 :

Simplify the following expression. $(\sqrt{25+12\sqrt{3}} - (20+(16) \text{ of } (8\sqrt{16}) - (54\sqrt{18}) \text{ of } \left(\frac{1}{2}\right)))$

Difficulty : Moderate Average Time : 97 Seconds

Options :

1. -13
2. 12
3. 22
4. 0

Solution :

The correct answer is **Option 1** i.e. **-13**.

$$\sqrt{25+12 \cdot 3} - (20+(16 \cdot 8 \cdot 16)-(54 \cdot 18) \cdot \frac{1}{2})$$

Applying BODMAS

$$\sqrt{25+12 \cdot 3} - (20+(128) \cdot (16 \cdot 16)-(54 \cdot 9))$$

$$\sqrt{5+4} - (20+(8) \cdot (6))$$

$$\sqrt{5+4} - (22)$$

$$[9-22] = -13$$

Question 53 :

If $a + b + c = 6$ and $a^2 + b^2 + c^2 = 14$, then what is the value of $(a - b)^2 + (b - c)^2 + (c - a)^2$?

Difficulty : Moderate Average Time : 57 Seconds

Options :

1. -8

8

3. 10

4. 6

Solution :

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

We know that,

$$(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ca)$$

$$(6)^2 = 14 + 2(ab + bc + ca)$$

$$ab + bc + ca = 11$$

$$\text{Now } (a - b)^2 + (b - c)^2 + (c - a)^2 = a^2 + b^2 - 2ab + b^2 + c^2 + c^2 + a^2 - 2ac$$

$$= 2(a^2 + b^2 + c^2) - 2(ab + bc + ca)$$

$$= 2(14) - 2(11)$$

$$= 28 - 22 = 6$$

Question 54 :

An amount becomes double in 8 years on simple interest. In how many years would Rs.25,000 become Rs.1,00,000 with the same rate of interest?

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

Options :

1. 32

28

3. 16

4. 24

Solution :

The correct answer is **Option 4** i.e. **24**.

We know that,

$$S.I. = (P \times R \times T)/100$$

here, S.I. = Simple Interest, P = Principal, R = Rate, and T = Time

As per the question,

$$P = (P \times R \times 8)/100$$

$$R = 12.5\%$$

Rs. 25,000 becomes Rs. 1,00,000

So, simple interest is $100000 - 25000 = \text{Rs.}75000$

So, as per the formula

$$75000 = (25000 \times 12.5 \times T)/100$$

$$T = 8 \times 3 = 24 \text{ years}$$

Question 55 :

The marked price on a book is ₹1,000. In a book fair, it is available for sale with a discount scheme offering two successive discounts of 12% and 8%. What is the final selling price (in ₹) of the book for a customer (rounded off to the nearest integer)?

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

Options :



810

2. 790

3. 825

4. 800

Solution :

The correct answer is **Option 1** i.e. **810**.

Profit is calculated on cost price and discount is calculated on market price.

Single discount equivalent to two successive discounts of a% and b% = $(a + b + ab/100)$

Here, a = 12%, and b = 8%

So, the single discount = $(-12 - 8 + 96/100) = -20 + 0.96 = -19.04\%$ [-ve sign indicates the discount]

Selling price after getting 19% discount,

$$1000 \times 81/100 = \text{Rs } 810$$

Question 56 :

A and B invested money in a business in the ratio of 7 : 5. If 15% of the total profit goes for charity, and A's share in the profit is Rs.5,950, then what is the total profit?

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

Options :

1. Rs.12,500

2. Rs.12,000



Rs.10,500

4. Rs. 11,750

Solution :

The correct answer is **Option 2** i.e. **Rs.12,000**.

A and B invested money in a business in the ratio of 7: 5.

15% of the total profit goes to charity, and

A's share in the profit is Rs. 5,950

Profit % = (Selling price- Cost price)/Cost price \times 100

The total profit of A and B will be = $5950 \times 12/7 = \text{Rs } 10200$

The total profit including charity = $10200 \times 100/85 = \text{Rs } 12000$

Question 57 :

A shopkeeper purchases six small cold drink bottles for â,^{1100} . For how much should he sell one such bottle to get a profit of 20% ?

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

Options :

1. â,^{122}

2. â,^{120}

3. â,^{121}

4. â,^{123}

Solution :

The correct answer is **Option 2** i.e. ₹20.

Given that

Cost price of six bottles = ₹100.

Profit = 20%

Selling price = Cost price \times (100 + profit %)/100

The selling price of the cold drinks = $100 \times 120/100 = \text{Rs } 120$

The selling price of each bottle = $120/6 = \text{Rs } 20$.

Question 58 :

Meenu is 38 years old. Her daughter is 8 years old. In how many years will Meenu be double her daughter's age?

Difficulty : Moderate Average Time : 44 Seconds

Options :

1. 22

2. 25

3. 20

4. 24

Solution :

The correct answer is **Option 1** i.e. 22.

Let, after x years will Meenu be double her daughter's age

As per the question,

$$38 + x = 2 \times (8 + x)$$

$$38 + x = 16 + 2x$$

$x = 22$ years

Question 59 :

Shatabdi Express train covers 700 km in 5 hours and another 1012 km in 11 hours, What is the average speed of the train (in metres/second)?

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

Options :

1. 107
2. $(385\frac{1}{5})$
3. $(29\frac{13}{18})$
4. 27

Solution :

The correct answer is **Option 3** i.e. $(29\frac{13}{18})$.

The first distance $D_1 = 700$ km

The time to cover first distance $T_1 = 5$ hours

The second distance $D_2 = 1012$ km

The time to cover second distance $T_2 = 11$ hours

The average speed = $(\frac{\text{Total distance}}{\text{Total Time}})$

Total distance = $D_1 + D_2 = 700 + 1012 = 1712$ km

Total time = $T_1 + T_2 = 5 + 11 = 16$ hours

Now, Average speed = $(\frac{1712}{16}) = 107$ km/h

The average speed in m/sec = $107 (\times \frac{5}{18}) = (29\frac{13}{18})$ m/sec

Question 60 :

In a company, a piece of work can be completed in 4, 6, and 18 days alone by R, S, and T, respectively. In how many days will the work be completed if they work together? (Rounded off to 2 decimal places)

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

Options :

1. 3.32
2. 2.12
3. 42
4. 3.21

Solution :

The correct answer is **Option 2** i.e. **2.12**.

Given:

A piece of work can be completed in 4, 6, and 18 days alone by R, S, and T.

Calculations:

Total work (L.C.M of 4, 6, and 18) = 36 units

The efficiency of R = $36/4 = 9$

The efficiency of S = $36/6 = 6$

The efficiency of T = $36/18 = 2$

Required time taken = $36/(9 + 6 + 2) = 36/17 = 2.12$

Question 61 :

In a $\triangle ABC$, if

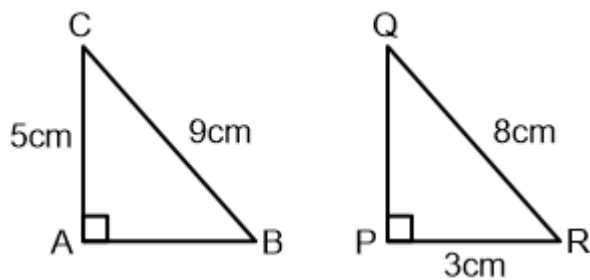
Difficulty : Moderate **Average Time : 44 Seconds**

Options :

1. $\hat{\angle}ABC \hat{=} \hat{\angle}PQR$
2. $\hat{\angle}ABC \hat{\%} \hat{\angle}PQR$
3. $\hat{\angle}ABC \hat{=} \hat{\angle}PQR$
4. $\hat{\angle}ABC = \hat{\angle}PQR$

Solution :

The correct answer is **Option 2** i.e. $\hat{\angle}ABC \hat{\%} \hat{\angle}PQR$.



If $\hat{\angle}ABC = \hat{\angle}PQR$, then

$AC = PR$, $BC = QR$ and $AB = PQ$

But,

$AC \neq PR$, $BC \neq QR$, and $AB \neq PQ$

So they are not congruent.

So, $C \hat{\%} \hat{A}PQR$

Question 62 :

The following diagram shows the rainfall over two years. Which of the following months shows the highest percentage change in rainfall?



Difficulty : Moderate Average Time : 54 Seconds

Options :

1. January
2. September
3. May
4. March

Solution :

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

Percentage change in January = $(55 - 35)/35 \times 100 = 57.14\%$

Percentage change in March = $(45 - 25)/25 \times 100 = 80\%$

Percentage change in May = $(75 - 45)/75 \times 100 = 40\%$

Percentage change in July = $(35 - 20)/35 \times 100 = 42.85\%$

Percentage change in September = $(25 - 15)/25 \times 100 = 40\%$

Percentage change in November = $(55 - 35)/35 \times 100 = 57.14\%$

Thus, The height percentage change in rainfall in March.

Question 63 :

If $p = \frac{\sqrt{2} + 1}{\sqrt{2} - 1}$ and $q = \frac{\sqrt{2} - 1}{\sqrt{2} + 1}$ then find the value of $\frac{p^2}{q} + \frac{q^2}{p}$.

Difficulty : Moderate Average Time : 53 Seconds

Options :

200

2. 196

3. 198

4. 188

Solution :

The correct answer is **Option 3** i.e. **198**.

$$p = \left(\frac{\sqrt{2} + 1}{\sqrt{2} - 1}\right)$$

On rationalize

$$p = \left(\frac{\sqrt{2} + 1}{\sqrt{2} - 1}\right) \times \left(\frac{\sqrt{2} + 1}{\sqrt{2} + 1}\right)$$

$$p = \left(\frac{(\sqrt{2} + 1)^2}{\sqrt{2}^2 - 1^2}\right) = \left(\frac{(2 + 1 + 2\sqrt{2})}{2 - 1}\right) = (3 + 2\sqrt{2})$$

Now, solve for q

$$q = \left(\frac{\sqrt{2} - 1}{\sqrt{2} + 1}\right)$$

On rationalize

$$q = \left(\frac{\sqrt{2} - 1}{\sqrt{2} + 1}\right) \times \left(\frac{\sqrt{2} - 1}{\sqrt{2} - 1}\right)$$

$$q = \left(\frac{(\sqrt{2} - 1)^2}{\sqrt{2}^2 - 1^2}\right) = \left(\frac{(2 + 1 - 2\sqrt{2})}{2 - 1}\right) = (3 - 2\sqrt{2})$$

The value of $\left(\frac{p^2}{q} + \frac{q^2}{p}\right) = \frac{(p^3 + q^3)}{pq} = \frac{(p+q)(p^2 + q^2 - pq)}{pq}$

Let's find out individual values

$$(p + q) = (3 + 2\sqrt{2}) + (3 - 2\sqrt{2}) = 6$$

$$pq = (3 + 2\sqrt{2})(3 - 2\sqrt{2}) = (9 - 6\sqrt{2} + 6\sqrt{2} - 8) = 1$$

$$p^2 + q^2 = (3 + 2\sqrt{2})^2 + (3 - 2\sqrt{2})^2$$

$$9 + 8 + 122 + 9 + 8 - 122$$

$$18 + 16 = 34$$

On putting these values in the given question

$$\left(\frac{p^2}{q} + \frac{q^2}{p}\right) = \frac{((p+q)(p^2+q^2-pq))}{pq}$$

$$\frac{(6)(34-1)}{1} = 6 \times 33 = 198$$

Question 64 :

Find the exact value of $\cos 120^\circ$.

Difficulty : Moderate Average Time : 111 Seconds

Options :

1. -0.5
2. 0
3. 0.5
4. 1

Solution :

The correct answer is **Option 1** i.e. **-0.5**.

$\cos 120^\circ$ lies in the second quadrant,

We know that in the second quadrant, only sin and cosec are positive rather and all other trigonometric functions are negative

$$\text{Thus, } \cos 120^\circ = \cos(180^\circ - 60^\circ) = \cos(-60^\circ) = -1/2 = -0.5$$

Question 65 :

A cone and a cylinder with equal radii have equal volumes. The ratio of their heights is :



Difficulty : Moderate Average Time : 44 Seconds

Options :

1. 2 : 3

2. 3 : 4

3. 1 : 2

4. 3 : 1

Solution :

The correct answer is **Option 4** i.e. **3 : 1**.

The volume of cone = $\frac{1}{3} \pi r_1^2 h_1$

here, r_1 = radius of cone, h_1 = height of cone

The volume of cylinder = $\pi r_2^2 h_2$

here, r_2 = radius of cylinder, h_2 = height of cylinder

Given that,

Volume of cone = volume of cylinder and,

$$r_1 = r_2$$

$$\frac{1}{3} \pi r_1^2 h_1 = \pi r_2^2 h_2$$

$$h_1/h_2 = 3/1$$

$$h_1 : h_2 = 3 : 1$$

Question 66 :

Observe the given figure. The distance between the two centers AB is



Difficulty : Moderate Average Time : 63 Seconds

Options :

1. 10 cm
2. 11 cm
3. 13 cm
4. 12 cm

Solution :

The correct answer is **Option 3** i.e. **13 cm**.

Concept:

Direct common tangent = $(\text{distance between the two centers}^2 - (r_1 - r_2)^2)$

Distance between the two centers is = x cm

As per the formula,

$$12^2 = (d^2 - (8 - 3)^2)$$

$$144 = d^2 - 25$$

$$d^2 = 169$$

$$d = 169$$

$$d = 13$$

Question 67 :

Quantity of various food items used by a restaurant during 4 months of a year (in kg).
Month Food Item March April
May June A 220 180 270 320 B 255 320 390 420 C 280 295 280 315 D 350 310 250 280 E 308 340 350 365
What is the average quantity of food item C used during all the 4 months together?



Difficulty : Moderate Average Time : 60 Seconds

Options :

1. 303.7 kg
2. 292.5 kg
3. 211.8 kg
4. 253.6 kg

Solution :

The correct answer is **Option 2** i.e. **292.5 kg**.

We know that,

Average = Sum of observations/Number of observations

Total food items $C = 280 + 295 + 280 + 315 = 1170$

Average = $1170/4 = 292.5$ kg

Question 68 :

Find the fourth proportional of 144, 192, and 216.

Difficulty : Moderate Average Time : 36 Seconds

Options :

1. 361
2. 288
3. 324



289

Solution :

The correct answer is **Option 2** i.e. **288**.

Concept:

$$a/b = c/d$$

Where d is the fourth proportion.

Calculations:

Let the fourth proportion be x.

Here, a = 144, b = 192, c = 216, and d = x

Now, on putting the given values

$$144/192 = 216/x$$

$$72/96 = 216/x$$

$$x = (216 \times 96)/72$$

$$x = 288$$

Question 69 :

Simplify the following expression. $(\frac{7}{10}) \div (\frac{3}{7})$ of $((2\frac{3}{10} + 2\frac{3}{5})) + (\frac{1}{5}) \div (1\frac{2}{5}) - (\frac{2}{7})$

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

Options :

1. $(-\frac{4}{21})$

2. $(\frac{5}{21})$

$$\left(\frac{4}{21}\right)$$

4. $\left(-\frac{5}{21}\right)$

Solution :

The correct answer is **Option 3** i.e. $\left(\frac{4}{21}\right)$.

$$\left(\frac{7}{10}\right) \div \left(\frac{3}{7}\right) \text{ of } \left(\left(2\frac{3}{10} + 2\frac{3}{5}\right)\right) + \left(\frac{1}{5}\right) \div \left(1\frac{2}{5}\right) - \left(\frac{2}{7}\right)$$

By using the BODMAS rule,

$$\left(\frac{7}{10}\right) \div \left(\frac{3}{7}\right) \text{ of } \left(\left(\frac{23}{10} + \frac{13}{5}\right)\right) + \left(\frac{1}{5}\right) \div \left(\frac{7}{5}\right) - \left(\frac{2}{7}\right)$$

$$\left(\frac{7}{10}\right) \div \left(\frac{3}{7}\right) \text{ of } \left(\left(\frac{23}{10} + \frac{26}{10}\right)\right) + \left(\frac{1}{5}\right) \div \left(\frac{7}{5}\right) - \left(\frac{2}{7}\right)$$

$$\left(\frac{7}{10}\right) \div \left(\frac{3}{7}\right) \text{ of } \left(\frac{49}{10}\right) + \left(\frac{1}{5}\right) \div \left(\frac{7}{5}\right) - \left(\frac{2}{7}\right)$$

$$\left(\frac{7}{10}\right) \div \left(\frac{21}{10}\right) + \left(\frac{1}{5}\right) \div \left(\frac{7}{5}\right) - \left(\frac{2}{7}\right)$$

$$\left(\frac{7}{10}\right) \times \left(\frac{10}{21}\right) + \left(\frac{1}{5}\right) \times \left(\frac{5}{7}\right) - \left(\frac{2}{7}\right)$$

$$\left(\frac{1}{3}\right) + \left(\frac{1}{7}\right) - \left(\frac{2}{7}\right)$$

$$\left(\frac{10}{21}\right) - \left(\frac{2}{7}\right) = \left(\frac{4}{21}\right)$$

Question 70 :

Using $\tan(A - B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}$ find the value of $\tan 15^\circ$.

Difficulty : Moderate **Average Time : 125 Seconds**

Options :

1. $3 + 1$

2. $3 - 1$

2 - 3

4. 2 + 3

Solution :

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

$$\tan 15^\circ = \tan(45^\circ - 30^\circ)$$

Using $\tan(A - B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}$

$$\tan(45^\circ - 30^\circ) = \frac{\tan 45^\circ - \tan 30^\circ}{1 + \tan 45^\circ \tan 30^\circ}$$

$$\tan 15^\circ = \frac{1 - \frac{1}{\sqrt{3}}}{1 + 1 \times \frac{1}{\sqrt{3}}}$$

$$\tan 15^\circ = \frac{\frac{\sqrt{3}-1}{\sqrt{3}}}{\frac{\sqrt{3}+1}{\sqrt{3}}}$$

$$\tan 15^\circ = \frac{\sqrt{3}-1}{\sqrt{3}+1}$$

On rationalizing,

$$\tan 15^\circ = \frac{\sqrt{3}-1}{\sqrt{3}+1} \times \frac{\sqrt{3}-1}{\sqrt{3}-1}$$

$$\tan 15^\circ = \frac{(\sqrt{3}-1)^2}{\sqrt{3}^2 - 1^2}$$

$$\tan 15^\circ = \frac{\sqrt{3}^2 + 1^2 - 2 \times \sqrt{3}}{3 - 1}$$

$$\tan 15^\circ = \frac{3 + 1 - 2\sqrt{3}}{2}$$

$$\tan 15^\circ = \frac{4 - 2\sqrt{3}}{2}$$

$$\tan 15^\circ = \frac{2(2 - \sqrt{3})}{2}$$

$$\tan 15^\circ = (2 - \sqrt{3})$$

Question 71 :

Suresh and Anil are working on a special project. Suresh takes 5 hours to type 40 pages and Anil needs 6 hours to type 32 pages on a computer. How much time will it take them to type a 110-page assignment if they work on two different computers?



Difficulty : Moderate Average Time : 89 Seconds

Options :

1. 8 hours 15 minutes
2. 8 hours
3. 7 hours 35 minutes
4. 8 hours 40 minutes

Solution :

The correct answer is **Option 1** i.e. **8 hours 15 minutes**.

Given:

Suresh takes 5 hours to type 40 pages

Anil needs 6 hours to type 32 pages

Concept used:

Total work = Efficiency \times Time

Calculations:

Total work (LCM of 40 and 32) = 160 pages

Time required by Suresh = $160/40 \times 5 = 20$ hours

Time required by Anil = $160/32 \times 6 = 30$ hours

Efficiency of Suresh = $160/20 = 8$ pages/hour

Efficiency of Anil = $160/30 = 16/3$ pages/hour

Total efficiency = $8 + 16/3 = 40/3$ pages/hour



Total time required = $110/(40/3) = 8(1/4)$ hour or 8 hour 15 minutes

Question 72 :

A thief is spotted by a policeman from a distance of 210 m. When the policeman starts the chase, the thief also starts running. If the speed of the thief is 25 km/h and that of the policeman is 32 km/h, then how far would the thief have run (in m) before he is overtaken?

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

Options :

1. 920
2. 480
3. 1200
4. 750

**Solution :**

The correct answer is **Option 4** i.e. **750**.

We know that,

Distance = speed \times time

Relative speed = $(32 - 25) \times 5/18 = 35/18$ m/s

Time taken to catch the thief = $210 \times 18/35 = 108$ sec

Distance covered in that time by the thief,

$$25 \times 5/18 \times 108 = 750 \text{ m}$$

Question 73 :

Sudhin cycled at 8.5 km/h for 4 hours, then took an auto and traveled at 20 km/h for 1.5 hours, and then walked at 4 km/h for y hours. If Sudhin's overall average speed for the entire journey was 10 km/h, what is the value of y?



Difficulty : Moderate Average Time : 51 Seconds

Options :

1. 2

2. 1.25

3. 1.5

4. 1.75

Solution :

The correct answer is **Option 3** i.e. **1.5**.

We know that,

Average speed = Total distance/Total time

Total distance covered,

$$8.5 \times 4 + 20 \times 1.5 + 4 \times y$$

$$= 64 + 4y$$

Total time taken,

$$4 + 1.5 + y$$

$$= 5.5 + y$$

As per the question,

$$(64 + 4y)/(5.5 + y) = 10$$

$$64 + 4y = 55 + 10y$$

$$6y = 9$$



$$y = 1.5 \text{ hr}$$

Question 74 :

The area of a sector is 1848 m² and the central angle of the sector is 270°. Find the radius of the circle. (Take $\pi = 22/7$)

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

Options :

1. 784 m
2. 22 m
3. 27 m
4. 28 m

Solution :

The correct answer is **Option 4** i.e. **28 m**.

We know that,

$$\text{Area of sector} = \frac{\theta}{360} \times \pi r^2$$

Now, according to the question,

$$1848 = \frac{270}{360} \times \frac{22}{7} \times r^2$$

$$r^2 = \frac{(1848 \times 360 \times 7)}{(270 \times 22)}$$

$$r^2 = 784$$

$$r = 28 \text{ m}$$

Question 75 :

A man and a woman can finish a work together in half the time taken by a woman and a boy together. A boy can finish the work alone in 20 days and 2 women together can finish it in 30 days. In how many days will the work be finished by 4 men?



Difficulty : Moderate Average Time : 58 Seconds

Options :

1. 2
2. 2.14
3. 2.5
4. 3

Solution :

The correct answer is **Option 2** i.e. **2.14**.

Given:

Time taken (Man + Woman) = $1/2 \times$ (Woman + Boy)

Concept used:

If work is constant,

Time is inversely proportional to efficiency

Calculations:

1 Boy completes the work = 20 days

2 woman can complete the work = 30 days

1 woman completes the work = 60 days

Total work (LCM of 30 and 60) = 60 units

Efficiency of a Boy = $60/20 = 3$

Efficiency of a woman = $60/60 = 1$



We know that,

Efficiency of (Man + Woman) : Efficiency of (Woman + Boy) = 2 : 1

According to the question;

1 unit = 4 units/day

Efficiency of (Man + Woman) = 2 units = 8

Efficiency of man = 8 - 1 = 7 units/day

Required time taken by 4 men = $60/(4 \times 7)$

$60/28 = 2.14$ days

Question 76 :

Select the most appropriate meaning of the underlined idiom. Has he lost his mind? He is falling foul of everybody.

Difficulty : Moderate Average Time : 68 Seconds

Options :

1. Quite puzzled with
2. Maintaining a sort of coldness
3. Having an amicable talk with
4. Quarrelling with

Solution :

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

- When someone is "**falling foul of**" others, it means they are getting into conflict or disagreement with them.

Question 77 :

Select the most appropriate synonym of the underlined word. In the 2030 Agenda for Sustainable Development, Member States express their commitment to protect the planet from degradation and take urgent action on climate



change.

Difficulty : Moderate Average Time : 47 Seconds

Options :

1. pollution
2. hazard
3. degeneration
4. approval

Solution :

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

- **"Degradation"** refers to the process of breaking down or deterioration, often resulting in a decline in quality, value, or condition.
- **"Degeneration"** refers to the process of deteriorating or declining, often involving a gradual worsening of a condition or a decrease in quality, function, or vitality.

Question 78 :

The following sentence has been split into four segments. Identify the segment that contains a grammatical error. My mother said / that Ben will done / the assignment / today.

Difficulty : Moderate Average Time : 51 Seconds

Options :

1. today
2. My mother said
3. that Ben will done



the assignment

Solution :

The correct answer is **option 3** i.e. **that Ben will do**.

- The correct form should be "**that Ben will do**" instead of "that Ben will done."
- In this case, the verb "do" should be in its base form "do" after the modal verb "will" to form the future tense.

Correct Sentence: My mother said that Ben will **do** the assignment today.

Question 79 :

Select the most appropriate option that can substitute the underlined segment in the given sentence. Irene went to office every single day by walk.

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

Options :

1. every day single by walk
2. every single day walk
3. every single day on foot
4. every single day on walk

Solution :

The correct answer is **option 3** i.e. **every single day on foot**.

- The corrected sentence would be: "**Irene went to the office every single day on foot.**"
- Using "on foot" effectively communicates the idea that Irene walked to the office each day.
-



It is a common phrase used to indicate traveling by walking rather than using any form of transportation.

Question 80 :

Select the most appropriate one-word substitution of the given group of words. Something that is absolutely necessary, that you cannot do without.

Difficulty : Moderate Average Time : 57 Seconds

Options :

1. Insular
2. Indispensable
3. Isolated
4. Intolerant

Solution :

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

- "**Indispensable**" means absolutely necessary or essential, something that is so vital that it cannot be done without.

Question 81 :

The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer. Mr. Ram Kumar, the cashier are / on temporary withdrawal / from service.

Difficulty : Moderate Average Time : 48 Seconds

Options :

1. on temporary withdrawal



Mr. Ram Kumar, the cashier are

3. from service
4. No error

Solution :

The correct answer is **option 2** i.e. **Mr. Ram Kumar, the cashier are.**

- The corrected sentence would be: "**Mr. Ram Kumar, the cashier, is on temporary withdrawal from service.**"
- In this case, "Mr. Ram Kumar, the cashier" is a singular subject, so it requires the singular verb "is" instead of the plural verb "**are.**"

The correct answer phrase is **Mr. Ram Kumar, the cashier is.**

Question 82 :

The given sentence has some words with incorrect spellings. Select the most appropriate option that corrects the spellings. The agreement was terminated by mutal consent.

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

Options :

1. The agreement was terminated by mutual consent.
2. The agreement was tarminated by mutual consent.
3. The agriment was terminated by mutual consent.
4. The agreement was terminated by mutual concent.

**Solution :**

The correct answer is **option 1** i.e. **The agreement was terminated by mutual consent.**

- **"Terminated"** is the correct spelling of the past tense of "terminate," meaning to end or cancel.
- **Mutal:** This is also a misspelling. The correct spelling is **"mutual"**, which means shared by two or more parties.

Question 83 :

Select the option that can be used as a one-word substitute for the given group of words. Animal living both on land and water.

Difficulty : Moderate Average Time : 57 Seconds

Options :

1. Marine
2. Amphibian
3. Arboreal
4. Terrestrial

Solution :

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

- Amphibians are a class of vertebrate animals that are characterized by their ability to live both on land and in water.

Question 84 :

Select the INCORRECTLY spelt word.

Difficulty : Moderate Average Time : 36 Seconds

Options :



Avarise

2. Adverse

3. Beige

4. Admonish

Solution :

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

- **The correct spelling is "AVARICE."**
- *Avarice* is a fancy word for good old-fashioned *greed*. It's one of what some call "the seven deadly sins."

Question 85 :

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'. The company decided to sell their stake in their subsidiary because it was under massive debts.

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

Options :

1. sell their stake in its subsidiary
2. No substitution
3. sell its stake in their subsidiary
4. sell its stake in its subsidiary

Solution :

The correct answer is **option 4** i.e. **sell its stake in its subsidiary.**



In this context, since the company is being referred to as a single entity, the possessive pronoun "its" should be used instead of "their" to maintain consistency.

- Additionally, "**its stake in its subsidiary**" reflects that the company owns the stake in the subsidiary, which is more accurate than using "their" in this context.

Question 86 :

Select the most appropriate option that can substitute the underlined segment in the given sentence. In times of difficulty, she preys for an oracle to guide her.

Difficulty : Moderate Average Time : 59 Seconds

Options :

1. pray
2. praise
3. price
4. prays

Solution :

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

- In this context, the word "**prays**" is the correct form of the verb, which means to communicate with a deity or seek divine guidance through prayer.
- "Preys," on the other hand, is a different word, referring to animals hunting or searching for prey.

Question 87 :

Select the option that expresses the given sentence in passive voice. Rahul knows Shahbaz since childhood.

Difficulty : Moderate Average Time : 47 Seconds

Options :

1. Shahbaz was known to Rahul since childhood.

Shahbaz is known to Rahul since childhood.

3. Shahbaz known by Rahul since childhood.
4. Shahbaz has known Rahul since childhood.

Solution :

The correct answer is **option 2** i.e. **Shahbaz is known to Rahul since childhood.**

In this passive construction:

- "**Shahbaz**" becomes the subject of the sentence.
- "**is known**" is the passive form of the verb.
- "**to Rahul**" remains the object of the sentence.

Hence, the correct answer is **Shahbaz is known to Rahul since childhood.**

Question 88 :

Select the most appropriate ANTONYM of the underlined word. The love between them is blooming.

Difficulty : Moderate Average Time : 57 Seconds

Options :

1. Flourishing
2. Sprouting
3. Growing
4. Fading

Solution :

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



"**Blooming**" in this context implies the growth or development of love, suggesting that it is flourishing or thriving.

- Therefore, its antonym "**fading**" would imply the opposite, indicating that the love is diminishing or weakening.

Question 89 :

Select the most appropriate ANTONYM of the underlined word. The truck was carrying a heavy load.

Difficulty : Moderate Average Time : 45 Seconds

Options :

1. Big
2. Massive
3. Light
4. Large

Solution :

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

- "**Heavy**" in this context indicates a significant weight or a large amount of something.
- Therefore, its antonym "**light**" implies the opposite, indicating a lack of weight or a small amount of something.

Question 90 :

Select the most appropriate meaning of the given idiom. To be in two minds

Difficulty : Moderate Average Time : 44 Seconds

Options :

1. To be dominated by someone else



To work on somebody else's advice

3. To be in a critical state

4. To be uncertain

Solution :

The correct answer is **option 4** i.e. **To be uncertain.**

- When someone is "in two minds" about something, it means they are undecided or unsure about a decision or course of action.

Question 91 :

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.The shopman was very interested in selling this creamy box to her as he would gain a big margin. B.The man on the counter showed her 'an exquisite little enamel box' with a very fine glaze as if baked in cream. C.As the box was too expensive, priced twenty-eight guineas, she asked the shopkeeper to keep it for her. D.She went inside a little antique shop in Curzon Street. This was the usual shop where the shopkeeper was ridiculously fond of serving her.

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

Options :

1. DCBA

2. ADBC

3. BDAC

4. DBAC

Solution :

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



- Sentence D** sets the scene by describing the setting where the interaction takes place.
- **Sentence B** provides detail about the item being shown to the woman, which is the focus of the interaction.
 - **Sentence A** describes the shopkeeper's eagerness to sell the item, indicating a potential motive behind his actions.
 - **Sentence C** concludes the interaction by mentioning the woman's decision to keep the item despite its high price.

Question 92 :

Select the most appropriate ANTONYM of the underlined word. I understand your plight.

Difficulty : Moderate Average Time : 55 Seconds

Options :

1. **Predicament**
2. **Dilemma**
3. **Quandary**
4. **Advantage**

Solution :

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

- The word "**plight**" refers to **a difficult or challenging situation or condition that someone is experiencing**.
- "**Advantage**" refers to a favourable or beneficial circumstance or situation that gives someone a superior or beneficial position over others.

Question 93 :

Select the most appropriate synonym of the given word. Certain

Difficulty : Moderate Average Time : 44 Seconds

Options :



Approval

2. Definite

3. Doubtful

4. Caution

Solution :

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

- Both "certain" and "definite" convey the idea of something being sure, known, or established without doubt.

Question 94 :

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'. The Karaoke programme was planned by the club was a grand success.

Difficulty : Moderate Average Time : 44 Seconds

Options :

1. were planned by the club
2. No substitution
3. has been planned by the club
4. planned by the club

Solution :

The correct answer is **option 4** i.e. **planned by the club**.

- The corrected sentence would be: "**The Karaoke programme planned by the club was a grand success.**"
- There is no need of using "was."

In English grammar, when using a passive construction like "was planned," there's no need for an additional "was" before the subject.

Question 95 :

Select the option that expresses the given sentence in passive voice. They will not water the plants.

Difficulty : Moderate Average Time : 53 Seconds

Options :

1. The plants will not be watered by them.
2. The plants will not be watered by us.
3. The plants are not be watered by them.
4. They shall not water the plants.

Solution :

The correct answer is **option 1** i.e. **The plants will not be watered by them.**

- The original sentence is in active voice, with the subject "they" performing the action of not watering the plants.
- To convert the sentence into passive voice, the object of the active sentence (plants) becomes the subject of the passive sentence, and the subject of the active sentence (they) becomes the agent (or is omitted).
- The verb "**will not water**" is changed to the passive form "**will not be watered.**"

Therefore, "**The plants will not be watered by them.**" is the correct expression of the sentence in passive voice.

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. War is mostly glorified and (1) _____ by society. The real picture of warfare is as horrific and (2) _____ as one can imagine. Often, soldiers who witness death-like experiences suffer from psychological disorders and are (3) _____ for the rest of their lives. Many war poems contrast all the sentimental myths about warfare by (4) _____ the harsh realities that soldiers face. The real trauma is seen in people who are left to (5) _____ for their loved ones after they are gone.

Question 96 :



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

Difficulty : Moderate Average Time : 97 Seconds

Options :

1. sharpened
2. cemented
3. sacrificed
4. eulogised

Solution :

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

- In this context, "eulogised" means **praised or celebrated in a highly positive manner**.
- The passage discusses how society tends to glorify and praise war, often portraying it in a positive light despite its true horrors.

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. War is mostly glorified and (1) _____ by society. The real picture of warfare is as horrific and (2) _____ as one can imagine. Often, soldiers who witness death-like experiences suffer from psychological disorders and are (3) _____ for the rest of their lives. Many war poems contrast all the sentimental myths about warfare by (4) _____ the harsh realities that soldiers face. The real trauma is seen in people who are left to (5) _____ for their loved ones after they are gone.

Question 97 :

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

Difficulty : Moderate Average Time : 70 Seconds

Options :



lengthening

2. inspiring

3. devastating

4. harkening

Solution :

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

- In this context, "**devastating**" accurately conveys the severity and destructive nature of warfare.
- It suggests that the reality of war is extremely distressing and has a profoundly damaging impact, aligning well with the overall tone of the passage.

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. War is mostly glorified and (1) _____ by society. The real picture of warfare is as horrific and (2) _____ as one can imagine. Often, soldiers who witness death-like experiences suffer from psychological disorders and are (3) _____ for the rest of their lives. Many war poems contrast all the sentimental myths about warfare by (4) _____ the harsh realities that soldiers face. The real trauma is seen in people who are left to (5) _____ for their loved ones after they are gone.

Question 98 :

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

Difficulty : Moderate Average Time : 72 Seconds

Options :

1. creeped

shelled

3. numbed

4. hardened

Solution :

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

- In this context, "**numbed**" suggests that soldiers who witness traumatic events in war may experience emotional or psychological numbing as a coping mechanism.

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. War is mostly glorified and (1) _____ by society. The real picture of warfare is as horrific and (2) _____ as one can imagine. Often, soldiers who witness death-like experiences suffer from psychological disorders and are (3) _____ for the rest of their lives. Many war poems contrast all the sentimental myths about warfare by (4) _____ the harsh realities that soldiers face. The real trauma is seen in people who are left to (5) _____ for their loved ones after they are gone.

Question 99 :

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

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

Options :

1. exposing

2. hardening

3. giving

4. being

**Solution :**

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

- In this context, "**exposing**" means revealing or bringing to light.
- The sentence suggests that war poems reveal or highlight the harsh realities of war, which contrasts with the sentimental myths often associated with warfare.

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. War is mostly glorified and (1) _____ by society. The real picture of warfare is as horrific and (2) _____ as one can imagine. Often, soldiers who witness death-like experiences suffer from psychological disorders and are (3) _____ for the rest of their lives. Many war poems contrast all the sentimental myths about warfare by (4) _____ the harsh realities that soldiers face. The real trauma is seen in people who are left to (5) _____ for their loved ones after they are gone.

Question 100 :

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

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

Options :

1. think
2. memorise
3. mourn
4. resist

Solution :

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

- In this context, "**mourn**" means to feel or express sorrow or grief, especially after the death of a loved one.

Ssc Cgl Tier I Previous Year Question Paper Analysis



The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2023-10-27 in the Morning Shift exam is as follows:

1. 100 questions were moderate.
2. The safe score is 140 marks.
3. , 25 questions were asked from Logical Reasoning, 25 questions were asked from General Awareness, 25 questions were asked from Quantitative Aptitude and 25 questions were asked from English Language
4. 19 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 - 7
3. Classification - 1
4. Blood Relation - 1
5. Syllogism - 2
6. Figure Based - 4
7. Series - 3
8. Mathematical Reasoning - 2
9. Data Sufficiency - 3

General Awareness

1. History - 1
2. Science - 4
3. Geography - 1
4. GK Misc - 12
5. Current Affairs - 3
6. Law & Constitution - 2
7. Art And Culture - 2

Quantitative Aptitude

1. Simplification - 2
2. Average - 1
3. Data Interpretation - 2
4. Time And Work - 3



- Time Speed And Distance - 3
- 6. Interest - 1
- 7. Ratios And Proportion - 1
- 8. Geometry - 3
- 9. Trigonometry - 3
- 10. Mensuration - 1
- 11. Algebra - 2
- 12. Profit And Loss - 3
- 13. Data Sufficiency - 3

English Language

- 1. Cloze Test - 5
- 2. Error Spotting - 2
- 3. Sentence & Para Jumbles - 1
- 4. Idioms - 2
- 5. One Word Substitution - 2
- 6. Voice - 2
- 7. Sentence Improvement - 4
- 8. Synonym - 2
- 9. Antonym - 3
- 10. Incorrectly Spelt - 2
- 11. Incorrectly Spelt - 2



Ssc Cgl Tier I Previous Year Question Paper Tips and 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.

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



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