

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 2022-12-03 in the Evening 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 :

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 P are Q. II. All R are Q. Conclusion: I. All Q are R. II. All P are R

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Neither conclusion follows
2. Only conclusion I follows
3. Only conclusion II follows
4. Both conclusions I and II follows

Solution :

The correct answer is **Option 1** i.e. **Neither conclusion follows**.

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



**Conclusions:**

I. All Q are R **False** (It is possible, but no definite conclusion can be drawn.)

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

Hence, **Neither conclusion follows.**

Question 2 :

Select the most appropriate collocating word to fill in the blank. I listened to him with _____ attention.

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. hefty
2. massive
3. rapt
4. vast

Solution :

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

The meaning of the given words is:

- **Rapt**: Completely engrossed or absorbed in something; deeply attentive or focused.
- **Hefty**: Large and heavy in size, weight, or amount; significant or considerable.
- **Massive**: Extremely large, heavy, or bulky; impressively solid or substantial.
- **Vast**: Extremely large in area, size, extent, or degree; immense or enormous.
- Therefore, rapt will be the most appropriate filler for the given blank.

Thus, the correct sentence is:

*I listened to him with **rapt** attention.*

Question 3 :

Select the correct combination of mathematical signs to replace the * signs and balance the given equation. $66 * 6 * 12 * 3 * 15 = 12$

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. $\div, , \times, +$

2. $+, , \div, \times$

3. $\div, \times, +,$

4. $\times, , \div, +$

Solution :

The correct answer is **Option 2** i.e. $+, , \div, \times$.

Given equation: $66 \div 6 - 12 \times 3 + 15 = 12$

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

After interchanging the expression becomes:

$$= 66 \div 6 - 12 \times 3 + 15 = 12$$

$$= 11 - 12 \times 3 + 15$$

$$= 11 - 36 + 15$$

$$= 11 - 21$$

$$= -10 \text{ is equal to } 12.$$

Option 2: $+, , \div, \times$

After interchanging the expression becomes:

$$= 66 + 6 - 12 \div 3 \times 15 = 12$$

$$= 66 + 6 - 4 \times 15$$

$$= 66 + 6 - 60$$

$$= 72 - 60$$

$$= 12 \text{ is equal to } 12.$$

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

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

Question 4 :

The value of $\left(\frac{\sqrt{1+\cos A}}{1-\cos A}\right)$ is:

Difficulty : Moderate

Average Time : 64 Seconds

**Options :**

1. $\sec A - \tan A$
2. $\operatorname{cosec} A + \cot A$
3. $\operatorname{cosec} A + \cot A$
4. $\operatorname{cosec} A - \cot A$

Solution :

The correct answer is **Option 2** i.e. $\operatorname{cosec} A + \cot A$.

Concept Used:

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

$$1/\sin A = \operatorname{cosec} A$$

$$\cos A/\sin A = \cot A$$

Explanation:

Multiplying $(1 + \cos A)$ in both numerator and denominator of $\left(\frac{\sqrt{1+\cos A}}{1-\cos A}\right)$, we get

$$\left(\frac{\sqrt{(1+\cos A)(1+\cos A)}}{(1-\cos A)(1+\cos A)}\right) = \left(\frac{\sqrt{(1+\cos A)^2}}{\sqrt{1-\cos^2 A}}\right) = \left(\frac{1+\cos A}{\sin^2 A}\right)$$

Removing square root, $\left(\frac{1+\cos A}{\sin A}\right) = \left(\frac{1}{\sin A} + \frac{\cos A}{\sin A}\right) = \operatorname{cosec} A + \cot A$.

Hence the value of $\left(\frac{\sqrt{1+\cos A}}{1-\cos A}\right)$ is $\operatorname{cosec} A + \cot A$.

Question 5 :

Which of the following letter clusters will replace the question mark (?) in the given series? RLV, PNS, NPP, ?, JTJ

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

1. MSN
2. LRM
3. KQN
4. KTM

Solution :



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

Given series: RLV, PNS, NPP, ?, JTJ

The series follows this pattern:

RLV, PNS

$R - 2 = P$

$L + 2 = N$

$V - 3 = S$

Similarly;

NPP, ?

$N - 2 = L$

$P + 2 = R$

$P - 3 = M$

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

Question 6 :

In a certain code language, STEAMER is coded as 81, and CRUISE is coded as 75. How will SUBMARINE be coded in that language?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 102
2. 109
3. 100
4. 115

Solution :

The correct answer is **Option 1** i.e. **102**.

The logic used here is:

STEAMER is coded as 81



STEAMER = 19 + 20 + 5 + 1 + 13 + 5 + 18 = 81

CRUISE is coded as 75

CRUISE = 3 + 18 + 21 + 9 + 19 + 5 = 71

Similarly;

Code for the word SUBMARINE:

SUBMARINE = 19 + 21 + 2 + 13 + 1 + 18 + 9 + 14 + 5 = 102

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

Question 7 :

Select the word pair that best represents a similar relationship to the one expressed in the given pair of words. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word) Tailor: Sewing machine

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. Electrician: Expensive
2. Farmer: Plants
3. Scissors: Hair
4. Police: Handcuffs

Solution :

The correct answer is **Option 4** i.e. **Police: Handcuffs**.

The logic used here is:

Tailor: Sewing machine

Tailor uses a sewing machine to stitch clothes.

Similarly,

Police: Handcuff

Police uses a handcuff to arrest the criminals.

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

Question 8 :

Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).

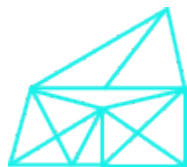
Difficulty : Moderate

Average Time : 47 Seconds

Options :

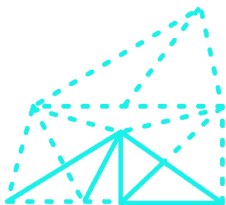
- 1.
- 2.
- 3.
- 4.

Solution :



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

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



Question 9 :

Select the option that represents the correct order of the given words as they would appear in an English dictionary. 1. Lesage 2. Laudatory 3. Laureate 4. Latitude 5. Legacy 6. Laudanum 7. Launder

Difficulty : Moderate

Average Time : 65 Seconds

Options :

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

Solution :

The correct answer is **Option 3** i.e. 4, 6, 2, 7, 3, 5, 1.

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

1. Latitude
2. Laudanum
3. Laudatory
4. Launder
5. Laureate
6. Legacy
7. Lesage

Question 10 :

In a certain code language, 'EDUCATION' is written as 'GFWCATKQP', and 'PROFESSOR' is written as 'RTQFESUQT'. How will 'FACULTIES' be written in that language?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. HCEWLTIGU
2. HCEWNVKGU
3. HCEULTKGU
4. HCEULVKGU

Solution :



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

The logic used here is:

'EDUCATION' is written as 'GFWCATKQP'

$$E + 2 = G$$

$$D + 2 = F$$

$$U + 2 = W$$

$$C = C$$

$$A = A$$

$$T = T$$

$$I + 2 = K$$

$$O + 2 = Q$$

$$N + 2 = P$$

'PROFESSOR' is written as 'RTQFESUQT'

$$P + 2 = R$$

$$R + 2 = T$$

$$O + 2 = Q$$

$$F = F$$

$$E = E$$

$$S = S$$

$$S + 2 = U$$

$$O + 2 = Q$$

$$R + 2 = T$$

Similarly;

Code for the word FACULTIES:

$$F + 2 = H$$

$$A + 2 = C$$

$$C + 2 = E$$

$$U = U$$

$$L = L$$

$$T = T$$

$$I + 2 = K$$

$$E + 2 = G$$

$$S + 2 = U$$

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

Question 11 :

By interchanging the given two signs and numbers which of the following equation will be correct? + and x, 1 and 2

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. $8 \times 3 - 4 \div 2 + 1 = 3$

2. $2 \times 3 - 8 \div 1 + 9 = 18$

3. $8 \times 3 - 4 \div 2 + 1 = 7$

4. $2 \times 3 - 8 \div 1 + 2 = 5$

Solution :

The correct answer is **Option 1** i.e. $8 \times 3 - 4 \div 2 + 1 = 3$.

Given conditions + and x, 1 and 2

Option 1: $8 \times 3 - 4 \div 2 + 1 = 3$

After interchanging the expression becomes:

$$= 8 + 3 - 4 \div 1 \times 2 = 3$$

$$= 8 + 3 - 4 \times 2$$

$$= 8 + 3 - 8$$

$$= 11 - 8$$

$$= 3 \text{ is equal to } 3.$$

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

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

Question 12 :

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

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 5

2. 4

3. 3

4. 1

Solution :

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

In the second and third dice, 2 is common. So, start rotating either in a clockwise or anticlockwise direction.

Clockwise direction:

Cube 2: 2 5 4

Cube 3: 2 3 6

Anticlockwise direction:

Cube 2: 2 4 5

Cube 3: 2 6 3

Hence, the face opposite to the face showing '2' is 1.

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

Question 13 :

Select the set 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 is not allowed.) (6, 22, 14) (8, 30, 19)

Difficulty : Moderate

Average Time : 60 Seconds



Options :

1. (12, 46, 27)
2. (4, 18, 11)
3. (7, 26, 17)
4. (9, 34, 22)

Solution :

The correct answer is **Option 2** i.e. (4, 18, 11).

The logic used here is:

(6, 22, 14)

$$6 + 22 = 28$$

$$28 \div 2 = 14$$

(8, 30, 19)

$$8 + 30 = 38$$

$$38 \div 2 = 19$$

Similarly,

(4, 18, 11)

$$4 + 18 = 22$$

$$22 \div 2 = 11$$

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

Question 14 :

Select the set in which the numbers are related in the same way as the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed) (63, 81, 7) (84, 49, 12)

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. (99, 121, 9)



(76, 234, 12)

3. (12, 125, 56)

4. (78, 14, 56)

Solution :

The correct answer is **Option 1** i.e. **(99, 121, 9)**.

The logic used here is:

(63, 81, 7)

$81 = 9$

$9 \times 7 = 63$

(84, 49, 12)

$49 = 7$

$7 \times 12 = 84$

Similarly,

(99, 121, 9)

$121 = 11$

$11 \times 9 = 99$

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

Question 15 :

Select the set in which the numbers are NOT 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) (22, 9, 198)

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. (19, 7, 133)

2. (26, 5, 130)

3. (28, 7, 196)

(17, 9, 157)

Solution :

The correct answer is **Option 4** i.e. (17, 9, 157).

The logic used here is:

(22, 9, 198)

$$22 \times 9 = 198$$

Option 1: (19, 7, 133)

$$19 \times 7 = 133$$

This follows the logic.

Option 2: (26, 5, 130)

$$26 \times 5 = 130$$

This follows the logic.

Option 3: (28, 7, 196)

$$28 \times 7 = 196$$

This follows the logic.

Option 4: (17, 9, 157)

$$17 \times 9 = 153$$

This does not follow the logic.

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

Question 16 :

A + B means 'A is the father of B' A – B means 'A is the mother of B' A @ B means 'A is the son of B' A # B means 'A is the daughter of B' If A # B – C @ D + E, then how is A related to E?

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. Sister-in-law
2. Mother

Sister

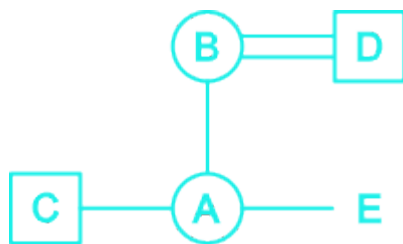
4. Daughter

Solution :

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

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 the sister of E.

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

Question 17 :

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 spoons are forks. All knives are forks. All forks are plates. Conclusions: I. All knives are plates. II. All plates are spoons. III. Some plates are knives.

Difficulty : Moderate

Average Time : 67 Seconds

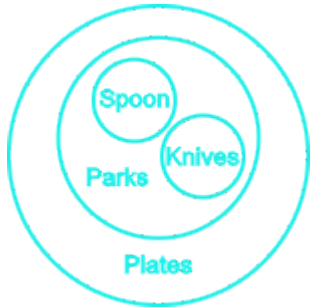
Options :

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

Solution :

The correct answer is **Option 4** i.e. **Both conclusions I and III follow**.

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

**Conclusions:**

- I. All knives are plates **True** (As knives are forks, and all forks are plates, so all knives are plates is also true.)
- II. All plates are spoons **False** (It is possible, but no definite conclusion can be drawn.)
- III. Some plates are knives **True** (As all knives are forks, all forks are plates, so, some plates are knives is also true.)

Hence, **Both conclusions I and III follow.**

Question 18 :

Which of the following numbers will replace the question mark (?) in the given series? ?, 11, 35, 107, 323

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. 4
2. 5
3. 8
4. 3

Solution :

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

Given series: ?, 11, 35, 107, 323

The series follows this pattern:

$$3 + 8 = 11$$

$$11 + (8 \times 3) = 11 + 24 = 35$$

$$35 + (24 \times 3) = 35 + 72 = 107$$

$$107 + (72 \times 3) = 107 + 216 = 323$$

So, the missing term in the series is **3**.

Question 19 :

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

Difficulty : Moderate

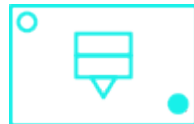
Average Time : 40 Seconds

Options :

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



Solution :



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

The logic used here is:

1. The figure at the center of the square is rotating in an anticlockwise direction.
2. The shaded circle and the unshaded one are also moving in an anticlockwise direction.

The series of figures is:



Question 20 :

Which of the following terms will replace the question mark (?) in the given series? VTHJ, ?, TRJL, SQKM, RPLN



Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. USIP
2. UZIK
3. USIK
4. USLK

Solution :

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

Given series: VTHJ, ?, TRJL, SQKM, RPLN

The series follows this pattern:

TRJL, SQKM

T - 1 = S

R - 1 = Q

J + 1 = K

L + 1 = M

Similarly;

VTHJ,?

V - 1 = U

T - 1 = S

H + 1 = I

J + 1 = K

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

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. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)



Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. (90 –93 –96)
2. (84 –87 –90)
3. (44–49 –52)
4. (58 –61 –64)

Solution :

The correct answer is **Option 3** i.e. (44–49 –52).

The logic used here is:

1st number + 3 = 2nd number

2nd number + 3 = 4th number

Option 1: (90 –93 –96)

$90 + 3 = 93$

$93 + 3 = 96$

This follows the logic.

Option 2: (84 –87 –90)

$84 + 3 = 87$

$87 + 3 = 90$

This follows the logic.

Option 3: (44–49 –52)

$44 + 3 = 47$

$47 + 3 = 50$

This does not follow the logic.

Hence, **option 3** is the odd one out.

Question 22 :

If $L \times M$ means that L is the mother of M, $L - M$ means that L is the father of M, $L \div M$ means that L is the sister of M.

Then which of the following expression shows that P is the father of R?

Difficulty : Moderate

Average Time : 65 Seconds

Options :

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

Solution :

The correct answer is **Option 2** i.e. $P - Q \div R$.

In the diagram shown;

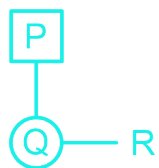
Square shows males, the circle shows females, vertical lines show generations, a single horizontal line shows brothers or sisters, and double lines show a couple.

Option1: $Q - P \times R$



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

Option 2: $P - Q \div R$



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

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

Question 23 :

Which figure should replace the question mark (?) if the series were to be continued?

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1.

I		8
T	S	Z
	C	

2.

8		C
T	S	Z
	I	

3.

I		C
Z	T	S
	8	

4.

I		C
S	8	Z
	T	

Solution :

I		8
T	S	Z
	C	

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

I	Z	Z	I	I	C	C	I	I	8					
B	K	C	T	8	K	K	T	8	S	Z	T	T	S	Z
	8		C		Z		8		C					

Letter I: Shift to the top right corner, top left corner, and so on.

Letter Z: First shift to the top left corner, then bottom (along the sides), then replaced the letter T in every next step.



For Letter B: The letter B is replaced by T then the letter T is shifted to the right in the same row.

For Letter K: First shift to the right side in the same row 2. When it reaches the extreme left then it is replaced by the letter S in the next step.

For Letter C: Moves downward (middle side of the third row), then top right corner, top left corner, then again downward (middle side of the third row).

For letter 8: Moves to the middle of row 2, shifts right, moves downwards (middle side of the third row), then finally moves to the top right corner.

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

Question 24 :

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

Difficulty : Moderate

Average Time : 115 Seconds

Options :

1. Kennel
2. Stable
3. Pen
4. Shed

Solution :

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

The logic used here is:

Bee: Beehive

Bee lives in the beehives.

Similarly,

Dog:?

Dogs live in kennels.

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

Question 25 :



Which two numbers, from among the given options, should be interchanged to make the given equation correct? $54 - (3 \times 12) \div (8)1/3 + (11 \times 4) + 6 = 69$

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 3 and 4
2. 4 and 12
3. 6 and 4
4. 11 and 6

Solution :

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

Given equation: $54 - (3 \times 12) \div (8)^{1/3} + (11 \times 4) + 6 = 69$

Option 1: 3 and 4

After interchanging the expression becomes:

$$= 54 - (4 \times 12) \div (8)^{1/3} + (11 \times 3) + 6 = 69$$

$$= 54 - 48 \div 2 + 33 + 6$$

$$= 54 - 24 + 33 + 6$$

$$= 54 - 24 + 39$$

$$= 69 \text{ is equal to } 69.$$

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

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

Question 26 :

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 : 71 Seconds

Options :

1. EQVK

RDIX

3. QFJV

4. IMRO

Solution :

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

The logic used here is:

Option 1: EQVK

This follows the logic.

Option 2: RDIX

This follows the logic.

Option 3: QFJV

This does not follow the logic.

Hence, **option 3** is the odd one out.

Question 27 :

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

Difficulty : Moderate

Average Time : 51 Seconds

Options :



2.



3.



4.



Solution :



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

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



Question 28 :

The arms Act which disallowed Indians from having arms was passed in _____.

Difficulty : Moderate

Average Time : 61 Seconds

Options :

- 1. 1878
- 2. 1925
- 3. 1920
- 4. 1855

Solution :

The correct answer is **Option 1** i.e. **1878**.

- The Arms Act, passed by the British in 1878 CE, forbade Indians from owning any weapons.
- The Arms Act, passed by the British in 1878 CE, forbade Indians from owning any weapons.
- The British intended to prevent Indians from keeping rifles and pistols because they did not want another uprising like the one that occurred in 1857 CE.

Question 29 :

Roquefortine C is found in:

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Meat
2. chicken
3. Egg
4. cheese

Solution :

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

- Roquefortine is a metabolite of *P. roqueforte* (a fungi used as a source of proteolytic and lipolytic enzymes during maturation of blue-veined cheeses).
- Roquefortine C is a mycotoxin produced by *Penicillium roqueforti* and *P. crustosum*.

Question 30 :

The Mohiniyattam dance form originated from which state?

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. Kerala
2. Karnataka
3. Tamil Nadu
4. Maharashtra

Solution :

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

Mohiniyattam (Mohiniattam) is a classical dance form of Kerala in South India.

- The term Mohiniyattam comes from the words mohini meaning a woman who enchants onlookers and aattam meaning graceful and sensuous body movements. Thus, the word Mohiniyattam literally means - dance of the enchantress.

Question 31 :

The body of the _____ is circular in cross-section, hence, the name roundworms. They may be free living, aquatic and terrestrial or parasitic in plants and animals.

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Platyhelminthes
2. Ctenophores
3. Mollusca
4. Aschelminthes

Solution :

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

- A very large and heterogeneous cluster of animals have traditionally been classified together in a group variously known as the Aschelminthes.
- They are called roundworms because they appear circular in cross-section. They are unsegmented.
- The body wall consists of a firm, non-living resistant cuticle, syncytial epidermis (a continuous layer of cytoplasm with scattered nuclei) and muscle layer. The muscle layer consists of longitudinal fibres only. The epidermis lacks cilia.

Question 32 :

Which French chemist was one of the first scientists to synthesise organic compounds such as formic acid, methane and acetylene from their elements?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Jacob Berzelius
2. Auguste Laurent
3. Marcellin Berthelot

Antoine Lavoisier**Solution :**

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

- Berthelot is considered as one of the greatest chemists of all time. He is noted for the Thomsen-Berthelot principle of thermochemistry.
- He synthesized many organic compounds from inorganic substances, providing a large amount of counterevidence to the theory of Jons Jakob Berzelius that organic compounds required organisms in their synthesis.
- Berthelot's chemical work was that all chemical phenomena depend on the action of physical forces which can be determined and measured.

Question 33 :

For which year was Manna Dey honored with the Dadasaheb Phalke Award?

Difficulty : Moderate**Average Time : 54 Seconds****Options :**

1. 2015
2. 2019
3. 2007
4. 2001

Solution :

The correct answer is **Option 3** i.e. **2007**.

- Legendary playback singer Manna Dey, who has enthralled audiences for over five decades, was conferred the Dadasaheb Phalke award by President Pratibha Patil at the 55th National Film Awards ceremony at Vigyan Bhavan.
- He was a music artist and composer, known for Sholay(1975), Mera Naam Joker(1970) and Anand(1971).

Question 34 :

Ugadi is celebrated in which of the following states?

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

1. Madhya Pradesh



Andhra Pradesh

3. Himachal Pradesh

4. Kerala

Solution :

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

- Ugadi is a Hindu festival, celebrated in the south Indian states of Andhra Pradesh, Karnataka and Telangana.
- The festival marks the beginning of a new Hindu calendar year and is celebrated on the first day of "Chaitra" month, which falls in the months of March-April as per the Gregorian calendar.

Question 35 :

Who has been appointed as the Chief Executive Officer of NITI Aayog in June 2022?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Avinash Kulkarni
2. Krishna Srinivasan
3. Vivek Kumar
4. Parameswaran Iyer

Solution :

The correct answer is **Option 4** i.e. **Parameswaran Iyer**.

- Mr. Parameswaran Iyer is the Chief Executive Officer of NITI Aayog.
- He is a member of the Indian Administrative Service, Uttar Pradesh Cadre, 1981 batch.
- Mr. Iyer has worked in various capacities with the government and the World Bank. Between 2016–20, he served as the Secretary to the Government of India in the Ministry of Drinking Water and Sanitation in New Delhi and led the implementation of India's flagship \$20 billion Swachh Bharat Mission, which delivered access to safe sanitation to 550 million people.

Question 36 :

Which special knowledge or practical experience is NOT a condition for being nominated to Rajya Sabha by the President of India?

Difficulty : Moderate

Average Time : 59 Seconds

Options :



Science

2. Art

3. Eloquence

4. Literature

Solution :

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

- The Constitution allows for 12 nominated members in Rajya Sabha with those favourable to ruling parties often getting the nomination.
- The Rajya Sabha should consist of not more than 250 members - 238 members representing the States and Union Territories, and 12 members nominated by the President.

Question 37 :

Achievement of self-reliance and removal of poverty were twin objectives of which five-year plan?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. Third

2. Fifth

3. Fourth

4. Second

Solution :

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

- The fifth five-year plan was introduced in 1974 under the chairmanship of Indira Gandhi, the former Prime Minister of India.
- Other members assisted her, including the ministers of respective sectors like railways, finance, home ministry, human resource development, etc., and noted India's economists.
- The 5th five-year plan witnessed the implementation of the emergency by Indira Gandhi, and thus its goals and objectives were marginally hampered in this period.
- The fifth five-year plan was also replaced by the rolling plan introduced in 1978 by the Morarji Desai Government.

Question 38 :

Who said the following words? "Sarfarooshi ki tamanna ab hamare dil me hai, dekhna hai zor kitna baazu-e-qaatil me hai"



Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. Ramprasad Bismil
2. Bhagat Singh
3. Ras Bihari Bose
4. Subhash Chandra Bose

Solution :

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

- Sarfaroshi ki Tamanna is a patriotic poem written in Urdu by Bismil Azimabadi of Patna in 1921.
- It was also immortalised by Ram Prasad Bismil as a freedom war cry during the British Raj period in India.

Question 39 :

Which of the following pairs of countries will host the 2023 FIFA Women's World Cup?

Difficulty : Moderate

Average Time : 45 Seconds

Options :

1. Canada and Mexico
2. New Zealand and Austria
3. France and Canada
4. New Zealand and Australia

Solution :

The correct answer is **Option 4** i.e. **New Zealand and Australia**.

- The FIFA Women's World Cup 2023 is jointly hosted by two countries, Australia and Aotearoa New Zealand, and held for the first time in the Southern Hemisphere.
- The FIFA Women's World Cup 2023 will be the first edition to feature 32 teams and it will also be the first to be hosted by Australia and New Zealand and across two confederations.

Question 40 :

Which force is responsible for the motion of the moon around earth?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Van der Waals
2. Centrifugal
3. Frictional
4. Centripetal

Solution :

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

- Centripetal force is defined as the force acting on a body that is moving in a circular path that is directed toward the center around which the body moves.
- The term comes from the Latin words centrum for "center" and petere, meaning "to seek." Centripetal force may be considered the center-seeking force.

Question 41 :

Who took oath as the 49th Chief Justice of India in August 2022?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Sanjiv Kapoor
2. Ajay Kumar Sood
3. Uday Umesh Lalit
4. Rajiv Ranjan

Solution :

The correct answer is **Option 3** i.e. **Uday Umesh Lalit**.

- Justice Uday Umesh Lalit took oath as the 49th Chief Justice of India a day after Justice N V Ramana demitted office.
- President of India Droupadi Murmu administered the oath of office to Justice Uday Umesh Lalit.
- Justice Uday Umesh Lalit is the senior-most judge in the top court after Justice Ramana.

Question 42 :

Identify the animal that is NOT a non-chordate.

Difficulty : Moderate

Average Time : 49 Seconds



Options :

1. Reptiles
2. Arthropods
3. Porifera
4. Arachnids

Solution :

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

- Non-chordates are animals that do not have a notochord.
- A notochord is also commonly called a backbone.
- Non-chordates respire through gills, the trachea, or body surfaces rather than lungs. They are ectothermic (cold-blooded). They have a central nervous system but may or may not have a brain.

Question 43 :

Asiad is regulated by_____.

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. International Olympic Council
2. Commonwealth Games Federation
3. Indian Olympic Council
4. Olympic Council of Asia

Solution :

The correct answer is **Option 4** i.e **Olympic Council of Asia**.

- Asian Games were regulated by the Asian Games Federation from 1951 to 1978.
- Since 1982, Olympic Council of Asia now regulates the Asian Games.
- The symbol for Asian Games is rising sun with interlocking rings.

Question 44 :

Dhuadhar falls originate from which of the following river?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

Mahanadi

2. Godavari

3. Narmada

4. Krishna

Solution :

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

- Dhuadhar Falls is not only in Jabalpur but it is an important place of tourism in whole of Madhya Pradesh.
- The shade of this fall falling from a height of 10 meters is unique.
- It originates from Narmada river.

Question 45 :

In which of the following cases did the Supreme Court of India pronounce the theory of the 'Basic Structure' of the Constitution?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Kesavananda Bharati Case, 1973
2. Golaknath Case, 1967
3. Minerva Mills Case, 1980
4. Swarn Singh Case, 1989

Solution :

The correct answer is **Option 1** i.e **Kesavananda Bharati Case, 1973**.

- Kesavananda Bharati v. State of Kerala case outlined the basic structure doctrine of the Constitution in 1973.
- The parliament reacted to it by enacting the 42nd Constitution Amendment Act, 1976, in which the Supreme Court held that the constituent power of Parliament under Article 368 does not enable it to alter the basic structure of the constitution.

Question 46 :

The year whose prices are being used to calculate the real GDP is called _____.

Difficulty : Moderate

Average Time : 50 Seconds

Options :



current year

2. constant year

3. base year

4. fiscal year

Solution :

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

- The base year is the year in which an index is set to 100. While computing macroeconomic numbers such as inflation or economic growth rates, indices are used.
- To monitor prices, the statistical agencies of the government will choose a basket of goods, and set the value of this basket to 100, for a chosen base year.

Question 47 :

Ajmer became the suba headquarters under the _____.

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Pallavas
2. Cholas
3. Mughals
4. Delhi Sultanate

Solution :

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

- Ajmer, Rajasthan was the capital of the Chauhan Kings in the twelfth century and later became the suba headquarters under the Mughals.
- Vasudeva Chauhan was the founder of of the Chauhan dynasty in 551 AD.

Question 48 :

The headquarters of the National Institute of Oceanography of India is located at:

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. New Delhi



Hyderabad

3. Kanyakumari

4. Goa

Solution :

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

- The National Institute of Oceanography (NIO) with its headquarters at Dona Paula, Goa, and regional centers at Kochi, Mumbai, and Visakhapatnam, is one of the 37 constituent laboratories of the Council of Scientific & Industrial Research (CSIR), New Delhi.
- The institute has since grown into a multi-disciplinary oceanographic research institute of international repute.
- The principal focus of research has been on observing and understanding special oceanographic characteristics of the Indian Ocean.
- The major research areas include the four traditional branches of oceanography - biological, chemical, geological/geophysical, and physical as well as ocean engineering, marine instrumentation and marine archaeology.

Question 49 :

Unemployment arising due to mismatch between Job availability in the market and skills of available worker is called?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Seasonal
2. Structural
3. Economical
4. Frictional

Solution :

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

- Structural unemployment is a category of unemployment caused by differences between the skills possessed by the unemployed population and the jobs available in the market.
- It can increase the natural unemployment rate.
- This type of unemployment happens because though jobs are available, there's a mismatch between what companies need and what available workers offer.

Question 50 :

Ravikirti was the court poet of which of the following dynasty ruler?



Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. Cholas
2. Cheras
3. Pallavas
4. Chalukyas

Solution :

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

- Ravikirti was the court poet of Pulkeshin II. The eulogy of Pulkeshin II was written by Ravikirti in the Aihole Inscription.
- The eulogy describes his victories against the Kadambas of Banavasi, Alupas and Gangas of Mysore.

Question 51 :

India's First AI-powered, end-to-end digital Lok Adalat was launched in _____.

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. Uttar Pradesh
2. Rajasthan
3. Madhya Pradesh
4. Gujarat

Solution :

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

- India's first-ever end-to-end Digital Lok Adalat was held on August 13 by the Rajasthan State Legal Services Authority (RSLSA) and Maharashtra State Legal Services Authority (MSLSA).
- The digitalisation of Lok Adalat will facilitate common people to get justice from the comforts of their homes.

Question 52 :

Kagyed dance, a customary dance festival which is celebrated annually in Sikkim falls in which month?

Difficulty : Moderate

Average Time : 46 Seconds



Options :

1. May
2. October
3. December
4. August

Solution :

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

- Kagyed is a form of Cham Masked *Dance* performed by Buddhist monks and lamas as their reverence to the almighty and as a means to ward off evils.
- The festival is observed on the 28th and 29th day of the 10th month of the Tibetan Lunar Calendar, coinciding with the early week of December.
- Most popular venues of Kagyed are the old Rumtek Monastery, Phodong Monastery and the Tsuklakhang Palace Monastery, where the celebrations commence two days prior to the onset of the New Year, which is further marked by much famous Losoong Festival.

Question 53 :

In a $\triangle ABC$, the median BE intersects AC at E . If $BG=12$ cm, where G is the centroid, then BE is equal to:

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. 16 cm
2. 18 cm
3. 15 cm
4. 13 cm

Solution :

The correct answer is **Option 2** i.e. **18 cm**.

Given:

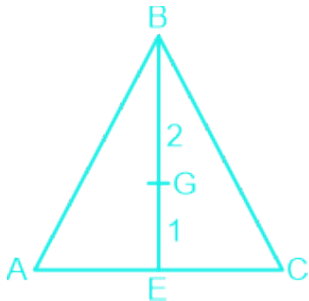
BE is median and G is centroid.

$BG = 12$ cm

Concept Used:

If G is the centroid of any triangle then it divides the median of the triangle in 2 : 1 ratio.

Explanation:



Let the length of BE is $3x$ cm.

Then $BG = 2x$ and $GE = x$.

Now, it is given that $BG = 12$

$$2x = 12$$

$$x = 6$$

So, $BE = 3x = 3 \times 6 = 18$.

Hence the value of BE is 18 cm.

Question 54 :

The table given below shows the number of players participating in two games in six different schools? Games School A B J 31 58 K 24 36 L 18 26 M 29 37 N 12 33 P 40 44 What is the ratio of total number of players participating in game A to the total number of players participating in game B?

Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. 117 : 77

2. 67 : 116

3. 77 : 117

4. 116 : 57

Solution :

The correct answer is **Option 3** i.e. 77 : 117.

Explanation:

From the given table,

Total number of players participating in game A = $(31 + 24 + 18 + 29 + 12 + 40) = 154$

Total number of players participating in game B = $(58 + 36 + 26 + 37 + 33 + 44) = 234$

Now, required ratio = $154 : 234 = 77 : 117$

Hence, the ratio of total number of players participating in game A to the total number of players participating in game B is $77 : 117$.

Question 55 :

$(mx + n)$ is a factor of:

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. $m^2 x^2 + 2nx + n^2$
2. $m^2 x^2 + 2mnx + n^2$
3. $m^2 x^2 + 2mx + n^2$
4. $m^2 x^2 + 2mn + n^2$

Solution :

The correct answer is **Option 2** i.e. $m^2 x^2 + 2mnx + n^2$.

Given:

$(mx + n)$ is a factor.

Concept Used:

The factors of any equation should be equal to zero.

Explanation:

According to the given question, $mx + n = 0$

$$x = \left(\frac{-n}{m}\right)$$

Putting the value of x in the options,

Option 1: $m^2 x^2 + 2nx + n^2$

$$\left(m^2 \left(\frac{-n}{m}\right)^2 + 2n\left(\frac{-n}{m}\right) + n^2\right)$$

$$-n^2 + \sqrt{2n^2 \over m} + n^2$$

Option 2: $m^2 x^2 + 2mnx + n^2$

$$\sqrt{(m^2 \hat{A} \{-n \over m\})^2 \hat{A} + 2mn\{-n \over m\} + n^2}$$

$$n^2 - 2n^2 + n^2 = 0$$

Hence $(mx + n)$ is factor of $m^2 x^2 + 2mnx + n^2$.

Question 56 :

ABC is a right - angle triangle at B. If $\tan A = 5/12$, then $\sin A + \sin B + \sin C$ will be equal to:

Difficulty : Moderate

Average Time : 99 Seconds

Options :

1. $\sqrt{1 \over 13}$
2. $\sqrt{2 \over 13}$
3. $\sqrt{3 \over 13}$
4. $\sqrt{2 \over 13}$

Solution :

The correct answer is **Option 2** i.e. $\sqrt{2 \over 13}$

Given:

$$\tan A = \sqrt{5 \over 12}$$

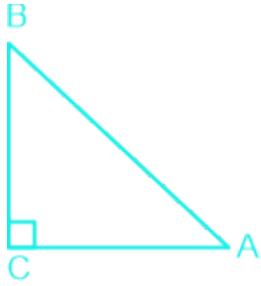
Concept Used:

In a right angled triangle, $\sqrt{(\tan \theta = \{ \text{perpendicular} \over \text{base} \})}$

$\sqrt{(\sin \theta = \{ \text{perpendicular} \over \text{hypotenuse} \})}$

Explanation:

$$\tan A = \sqrt{5 \over 12}$$



In triangle ABC, $BC = 5$, $AC = 12$, then using pythagoras theorem, $AB = 13$.

$$\sin A = \frac{BC}{AB} = \frac{5}{13} \quad \dots(i)$$

$$\sin B = \frac{AC}{AB} = \frac{12}{13} \quad \dots(ii)$$

$$\sin C = \sin 90^\circ = 1 \quad \dots(iii)$$

Now, adding equations (i), (ii) and (iii), we get

$$\sin A + \sin B + \sin C = \left(\frac{5}{13} + \frac{12}{13} + 1\right)$$

$$\sin A + \sin B + \sin C = \frac{5 + 12 + 13}{13} = \frac{30}{13} = 2\frac{4}{13}$$

Hence the value of $\sin A + \sin B + \sin C$ is $2\frac{4}{13}$.

Question 57 :

Study the given triangle and find the length of BC.

Difficulty : Moderate

Average Time : 97 Seconds

Options :

1. $\frac{5}{2}$
2. 6
3. 5
4. 3

Solution :

The correct answer is **Option 3** i.e. 5.

Given:

$$AB = 10$$

$$\text{Angle } BAC = 30^\circ$$

**Concept Used:**

$$\sin 30^\circ = \frac{1}{2}$$

Explanation:

From the given diagram,

$$\sin A = \frac{BC}{AB}$$

$$\sin 30^\circ = \frac{x}{10}$$

$$\frac{1}{2} = \frac{x}{10}$$

$$x = 5$$

Hence the length of BC is 5.

Question 58 :

With an average speed of 45 km/h, a train reaches its destination on time. If it goes with an average speed of 30 km/h, it is late by 15 minutes. The total journey is:

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

1. 20.5 km
2. 40.5 km
3. 22.5 km
4. 30.5 km

Solution :

The correct answer is **Option 3** i.e. **22.5 km**.

Given:

Moving with 45 km/h, train reaches on time.

Moving with 30 km/h train reaches 15 minutes late.

Concept Used:

Distance = speed × time

Explanation:



Let the time taken by train to reach the destination on time is t hours.

Then, distance = $45t$... (i)

Now, the time taken by train while travelling with 30 km/h speed = $t + \frac{15}{60} = (t + \frac{1}{4})$ hours

Then, distance = $30(t + \frac{1}{4})$... (ii)

Equating equation (i) and equation (ii), we get

$$45t = 30(t + \frac{1}{4})$$

$$45t = 30t + \frac{15}{2}$$

$$15t = \frac{15}{2}$$

$$t = \frac{1}{2} \text{ 30 minutes.}$$

Now distance = $45 \times \frac{1}{2} = 22.5 \text{ Km.}$

Hence the total journey is 22.5 km.

**Question 59 :**

The tax on the salary of C is $\frac{1}{4}$ of the salary and savings are $\frac{1}{3}$ of the salary. The ratio of the expenditures to the savings is _____.

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

1. 4 : 5

2. 4 : 3

3. 5 : 4

4. 3 : 4

Solution :

The correct answer is **Option 3** i.e. **5 : 4**.

Given:

Tax = $\frac{1}{4}$ of salary

Savings = $\frac{1}{3}$ of salary

Explanation:

Let the salary of C be $12x$.

Now, tax = $3x$ and savings = $4x$

Now the expenditure = $12x - (3x + 4x) = 12x - 7x = 5x$.

Now the required ratio = $5x : 4x = 5 : 4$.

Hence The ratio of the expenditures to the savings is $5 : 4$.

Question 60 :

Study the following table and answer the question that follows. A schools has four sections A, B, C and D of class IX students. The results of Science and Mathematics examinations are shown in the following table. RESULT No. of Students Section A Section B Section C Section D Failed in both 24 25 18 20 Failed in Science but passed in Mathematics 14 12 10 15 Passed in Science but failed in Mathematics 7 6 8 10 Passed in both 63 60 56 55 What is the ratio of numbers of students who failed in Science but passed in Mathematics of sections B and Section D together to the number of students of section A that passed in both subjects ?

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

1. $9 : 17$
2. $3 : 7$
3. $4 : 9$
4. $5 : 11$

Solution :

The correct answer is **Option 2** i.e. $3 : 9$.

Explanation:

From the given table,

Number of students who failed in Science but passed in Mathematics of sections B and section D together = $(12 + 15) = 27$

The number of students of section A that passed in both subjects = 63

Now, the required ratio = $27 : 63 = 3 : 7$.

Hence the ratio of numbers of students who failed in Science but passed in Mathematics of sections B and Section D



together to the number of students of section A that passed in both subjects is 3 : 7.

Question 61 :

In a 1200 m race, bike A beats bike B by 100 m. Bike B beats bike C by 100 m in a 600 m race. If bike A beats bike C by 30 sec in a 720 m race, then what is the speed of bike C?

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

1. $\frac{17}{3}$ m/sec
2. $\frac{26}{9}$ m/sec
3. $\frac{17}{9}$ m/sec
4. $\frac{26}{3}$ m/sec

Solution :

The correct answer is **Option 1** i.e. $\frac{17}{3}$ m/sec

Given:

In 1200m race, A beats B by 100m

In 600m race, B beat C by 100m.

In 720m race, A beat C by 30 sec.

Concept Used:

If distance is same, $S_1 T_1 = S_2 T_2$

And if time is same, $\frac{D_1}{D_2} = \frac{S_2}{S_1}$

Explanation:

Since A beat B by 100m, ratio of speeds of A and B = 1200 : 1100 = 12 : 11

Also, B beat C by 100m, ratio of speeds of B and C = 600 : 500 = 6 : 5

Now, the ratio of speeds of A, B and C = 72 : 66 : 55 for same time.

Ratio of time taken by A, B and C = 55 : 66 : 72

So, given that A beat C by 30 sec, i.e. (72 - 55) = 17 30

In 720 m race, Time taken by C = $\left(\frac{30}{17}\right) \times 72$

Now, speed of C = $\left(\frac{720}{\left(\frac{30}{17}\right) \times 72}\right) = 17/3$.

Hence the speed of C is 17/3 m/sec.

Question 62 :

The following table gives information of Panchayat elections held in six villages P, Q, R, S, T and U. Village Total number of votes in hundred Votes polled (in %) Valid votes (in %) P 50 80 80 Q 60 75 80 R 100 65 65 S 80 60 70 T 60 80 90 U 40 90 60 Hint: 1) percentage of votes polled = Total votes polled/ Total number of votes $\times 100$ 2) percentage of valid votes = Total valid votes/ Total votes polled $\times 100$ Find the ratio of invalid votes of village R to that of village U?

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

1. 455 : 268
2. 321 : 107
3. 455 : 288
4. 423 : 755

Solution :

The correct answer is **Option 3** i.e. **455 : 288**.

Explanation:

From the given table,

In village R, Total votes polled = 65% of 10000 = 6500

Total valid votes = 65% of 6500 = 4225

So, Total number of invalid votes = 6500 - 4225 = 2275

In village U, Total votes polled = 90% of 4000

Total valid votes = 60% of 3600 = 2160

So, Total number of invalid votes = 3600 - 2160 = 1440

Now, the required ratio = 2275 : 1440 = 455 : 288

Hence the ratio of invalid votes of village R to that of village U is 455 : 288.

Question 63 :

A dishonest trader says to customers that he sells his goods at a cost price, but he uses a false weight and gains 12.5% as profit. How many grams does he use to weigh 1 kg?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 900 g
2. 880.5 g
3. 850 g
4. 888.8 g

Solution :

The correct answer is **Option 4** i.e. **888.8 g**.

Given:

Profit % = 12.5%

Concept Used:

$\text{Profit \%} = \left\{ \frac{(\text{S.P.} - \text{C.P.})}{\text{C.P.}} \times 100 \right\} \dots(i)$

Explanation:

The trader sells the goods at cost price, gains 12.5%.

We have to use the weight in place of price in the above formula, we get

Selling weight = 1000 grams and Profit = 12.5%

From equation (i), we get

$$12.5 = \left\{ \frac{(1000 - \text{C.P.})}{\text{C.P.}} \times 100 \right\}$$

$$12.5 \text{ C.P.} = 100000 - 100\text{C.P.}$$

$$112.5 \text{ C.P.} = 100000$$

$$\text{C.P.} = 100000/112.5$$

$$\text{C.P.} = 888.88$$

Hence the trader uses 888.88 grams of weight while selling his goods in place of 1 Kg.

Question 64 :



Find the largest number of 3 digits divisible by 4 and 7.

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. 960
2. 980
3. 990
4. 970

Solution :

The correct answer is **Option 2** i.e. **980**.

Given:

The numbers are 4 and 7.

Explanation:

The largest 3-digit number = 999.

Now, the number that must be divisible by both 4 and 7 should also be divisible by LCM of 4 and 7.

So, LCM of (4, 7) = 28

Dividing 999 by 28, we get

$999 \div 28$ gives remainder as 19.

So, the number to be divisible by 28 is $999 - 19 = 980$.

Hence, the largest 3-digit number that is divisible by both 4 and 7 is 980.

Question 65 :

A and B working separately can complete a piece of work in 10 and 16 days, respectively. If they work for a day alternately, with A beginning the work, in how many day(s) will the work be completed?.

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. $\left(10 \frac{1}{4}\right)$
 $\left(10 \frac{1}{4}\right)$



$$\sqrt{12\frac{1}{4}}$$

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

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

Solution :

The correct answer is **Option 2** i.e. $\sqrt{12\frac{1}{4}}$

Given:

Time taken by A alone = 10 days

Time taken by B alone = 16 days

Explanation:

Time taken by A to complete the work = 10 days

So, part of work done by A in 1 day = $\frac{1}{10}$

Time taken by B to complete the work = 16 days

So, part of work done by B in 1 day = $\frac{1}{16}$

Now, the part of work done by (A + B) in 2 days = $(\frac{1}{10} + \frac{1}{16}) = \frac{13}{80}$

Now, let the total work to be done by (A + B) be 80 units.

Efficiency of A = 8 units/day

Efficiency of B = 5 units/day

The work done by (A + B) in 2 days is 13 units.

Now, work done by (A + B) in (2×6) days is (13×6) units

So, work done by (A + B) in 12 days is 78 units.

Now A will come to work and complete the remaining 2 units work in $\frac{2}{8}$ days = $\frac{1}{4}$ days.

So, the total work will be done in $\sqrt{12\frac{1}{4}}$ days.

Question 66 :

If the length of the diagonal of a cube is $7\sqrt{3}$ cm, then the surface area of the cube is_____.

Difficulty : Moderate

Average Time : 94 Seconds

Options :



1. 216 cm^2
2. 256 cm^2
3. 284 cm^2
4. 294 cm^2

Solution :

The correct answer is **Option 4** i.e. 294 cm^2 .

Given:

Length of diagonal of cube, $d = 7\sqrt{3} \text{ cm}$

Concept Used:

Diagonal of cube = $a\sqrt{3}$ (i)

Surface area of cube = $6a^2$ (ii)

Explanation:

From equation (i), $7\sqrt{3} = a\sqrt{3}$

$$a = 7$$

Now, from equation (ii), we get

$$\text{Surface area of cube} = 6(7)^2$$

$$\text{Surface area of cube} = 6 \times 49$$

$$\text{Surface area of cube} = 294$$

Hence the surface area of the given cube is 294 cm^2 .

Question 67 :

If $\angle BPQ = \angle ASR$ and $\angle C = 90^\circ$, then find $\angle B, \angle Q$. (All angles are in degrees).

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. 108°
2. 36°

 72° 4. 118° **Solution :**

The correct answer is **Option 1** i.e. **108°** .

Given:

BPQ ASR

 $\angle A = \frac{1}{3} \angle R = \angle S$ **Concept Used:**

Sum of all angles of a triangle is 180° .

Suppose two triangles ABC and PQR are congruent, then

 $\angle A = \angle P, \angle B = \angle Q, \angle C = \angle R$ **Explanation:**

Let the value of $\angle A$ is x .

So, $\angle R = 3x$ and $\angle S = x$.

So, in triangle ASR, $\angle A + \angle S + \angle R = 180^\circ$

$$x + x + 3x = 180$$

$$5x = 180$$

$$x = 36^\circ$$

Since BPQ ASR, $\angle Q = \angle R$

$$\angle Q = 3x = 3 \times 36 = 108$$

Hence the value of $\angle Q$ is 108° .

Question 68 :

Two identical circles each of radius 30 cm intersect each other such that the circumference of each one passes through the centre of the other. What is the area of the intersecting region?

Difficulty : Moderate**Average Time : 136 Seconds****Options :**

1. $\sqrt{\{400\pi - 250\sqrt{3}\text{cm}^2\}}$
2. $\sqrt{\{300\pi - 150\sqrt{3}\text{cm}^2\}}$
3. $\sqrt{\{500\pi - 350\sqrt{3}\text{cm}^2\}}$
4. $\sqrt{\{600\pi - 450\sqrt{3}\text{cm}^2\}}$

Solution :

The correct answer is **Option 4** i.e. $\sqrt{\{600\pi - 450\sqrt{3}\text{cm}^2\}}$

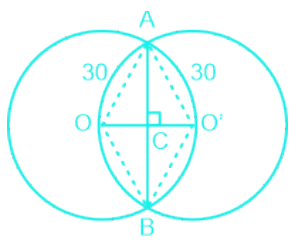
Given:

Radius = 30 cm

Concept Used:

Pythagoras theorem, $P^2 + B^2 = H^2$

Explanation:



From the diagram above, $OA = O'A = OB = O'B = OO' = 30$ cm

Now, In triangle ACO, $(AO)^2 = (AC)^2 + (OC)^2$

$$AC^2 = (30)^2 - (15)^2$$

$$AC^2 = 675$$

$$AC = \sqrt{15\sqrt{3}} \text{ cm}$$

$$\text{So, } AB = \sqrt{30\sqrt{3}} \text{ cm}$$

Also, since $OA = O'A = OO' = 30$ cm, then triangle AOO' is an equilateral triangle.

So, angle AOO' = 60° and

angle AOB = 120°

Now, Area of AO'BA = Area of sector AO'B - Area of triangle AO'B

$$\text{Area of AO'BA} = \left\{ \frac{120}{360} \right\} \times \pi(30)^2 - \left\{ \frac{1}{2} \right\} \times 30\sqrt{3} \times 15$$

$$\text{Area of AO'BA} = (300\pi) - (225\sqrt{3})$$

$$\text{Now, Area of intersecting region} = 2 \times \text{Area of AO'BA} = 2 \times ((300\pi) - (225\sqrt{3})) = (600\pi - 450\sqrt{3}) \text{ cm}^2$$

$$\text{Hence the required area of intersecting region is } (600\pi - 450\sqrt{3}) \text{ cm}^2.$$

Question 69 :

The marked price of a chair is Rs. 2,400, which is 20% above the cost price. If the chair is sold at a discount of 10% on marked price, what is the profit percentage?

Difficulty : Moderate**Average Time : 135 Seconds****Options :**

1. 10%
2. 8%
3. 9%
4. 26.2%

Solution :

The correct answer is **Option 2** i.e. **8%**.

Given:

M.P. = Rs. 2,400 which is 20% above its C.P.

Discount = 10%

Concept Used:

$$(S.P. = M.P. \times \frac{(100 - D)}{100}) \quad \dots(i)$$

$$(\text{Profit} \% = \frac{(S.P. - C.P.)}{C.P.} \times 100) \quad \dots(ii)$$

Explanation:

According to the given question, M.P. = 120% of C.P.

$$2,400 = (120/100) \times C.P.$$

$$C.P. = 400 \times 5 = 2000$$

Now, Using equation (i), we get

$$S.P. = (2400 \times \frac{(100 - 10)}{100})$$



$$S.P. = 24 \times 90$$

$$S.P. = 2160$$

Now, using equation (ii), we get

$$\text{Profit \%} = \left\{ \frac{(2160 - 2000)}{2000} \right\} \times 100$$

$$\text{Profit \%} = 160/20$$

$$\text{Profit \%} = 8$$

Hence the profit percentage is 8%.

Question 70 :

A sum becomes Rs.15,500 in 7 years on simple interest at the rate of 30 percent per annum. What is the total interest for the 7 years?

Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. Rs.12,200
2. Rs.1,47,000
3. Rs.10,500
4. Rs.11,500

Solution :

The correct answer is **Option 3** i.e. **Rs.10,500**.

Given:

Amount = Rs.15,500

Time = 7 years

Rate = 30% p.a.

Concept Used:

Amount = Principle + Interest(i)

S.I. = $\left\{ \frac{P \times R \times T}{100} \right\}$ (ii)

Explanation:



Let the principle be Rs. P and interest be Rs. I .

Now, Using equation (ii), we get

$$I = \frac{(P \times 30 \times 7)}{100} \quad \text{(iii)}$$

And, from equation (i), we get

$$P + I = 15,500$$

$$P = 15,500 - I \quad \dots\text{(iv)}$$

Using equation (iv) in equation (iii), we get

$$I = \frac{((15,500 - I) \times 30 \times 7)}{100}$$

$$10I = 325500 - 21I$$

$$31I = 325500$$

$$I = 10500$$

Hence the interest after 7 years is Rs. 10,500.

Question 71 :

Study the given table and answer the question that follows. The tables shows the percentage of marks obtained by 7 students in different subjects. How many students have scored the highest percentage of marks in more than one subject?

Difficulty : Moderate

Average Time : 80 Seconds

Options :

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

Solution :

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

Explanation:

From the given table,

Amit scored hight marks in Physics and IT.

Kanchan scored highest marks in Hindi.

Kunal scored highest marks in Chemistry.

Diksha scored highest marks in English, Maths and Biology.

So, Amit and Diksha scored highest marks in more than one subject.

Hence 2 students have scored the highest percentage of marks in more than one subject.

Question 72 :

If $x + y + z = 0$, then what is the value of $\left(\frac{x^2}{yz}\right) + \left(\frac{y^2}{xz}\right) + \left(\frac{z^2}{xy}\right)$?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 1
2. 0
3. 2
4. 3

Solution :

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

Given:

$$x + y + z = 0$$

Concept Used:

$$\text{If } x + y + z = 0, \text{ then } x^3 + y^3 + z^3 = 3xyz \dots(i)$$

Explanation:

According to the given question,

$$\frac{x^2}{yz} + \frac{y^2}{xz} + \frac{z^2}{xy}$$

$$\frac{(x^3 + y^3 + z^3)}{xyz} = \frac{3xyz}{xyz} = 3 \quad \{\text{Using equation (i)}\}$$

Hence the required value is 3.

Question 73 :

What is the possible value of $(a + b + c) - 3$, if $a^2 + b^2 + c^2 = 9$ and $ab + bc + ca = 8$?



Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 5

2. 3

3. 9

4. 2

Solution :

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

Given:

$$a^2 + b^2 + c^2 = 9$$

$$ab + bc + ca = 8$$

Concept Used:

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

Explanation:

Using the given values in the equation (i), we get

$$(a + b + c)^2 = 9 + 2(8)$$

$$(a + b + c)^2 = 9 + 16$$

$$(a + b + c)^2 = 25$$

$$(a + b + c) = 5$$

Hence the value of $(a + b + c) - 3 = 5 - 3 = 2$.

Question 74 :

If the 8-digit number 123456xy is divisible by 8, then the total possible pairs of (x,y) are:

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. 8

2. 13

10

4. 11

Solution :

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

Given:

Number = 123456xy

Concept Used:

Divisibility rule of 8: A number is divisible by 8 when the last three digits of a number are divisible by 8.

n^{th} term of an AP , $a_n = a + (n - 1)d$

Explanation:

If the number 123456xy is divisible by 8, then the possible numbers can be 600, 608, 616,.....,696.

Now we have, $a = 600$, $d = 8$, $a_n = 696$ and $n = ?$

So putting the values in the formula, we get

$$696 = 600 + (n - 1)(8)$$

$$96 = 8n - 8$$

$$8n = 104$$

$$n = 13$$

Hence the total possible pairs of (x,y) are 13.

Question 75 :

The area of a sector of a circle is 308cm^2 , with the central angle measuring 45° . The radius of the circle is:

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

1. 14 cm
2. 21 cm
3. 7 cm
4. 28 cm

**Solution :**

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

Given:

$$\text{Area of sector} = 308 \text{ cm}^2$$

$$\text{Central angle} = 45^\circ$$

Concept Used:

$$\text{Area of sector} = \left(\frac{\theta}{360}\right) \times \pi r^2 \quad \dots(i)$$

Explanation:

Putting the given values in equation (i), we get

$$\text{Area of sector} = \left(\frac{45}{360}\right) \times \pi r^2$$

$$308 = \left(\frac{1}{8}\right) \times \pi r^2$$

$$r^2 = 56 \times 14$$

$$r^2 = 49 \times 16$$

$$r = 28$$

Hence the radius of the sector is 28 cm.

Question 76 :

The cost of apples is increased by 20% and then decreased by 20%. What is the net percentage decrease?

Difficulty : Moderate

Average Time : 63 Seconds

Options :

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

Solution :

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

Given:

Increment = 20%



Decrement = 20% of the new number

Concept Used:

Net Decrease = $\left(\frac{\text{Final number} - \text{original number}}{\text{original number}} \right) \times 100$

Explanation:

Let the original number be 100.

Now, after first increment, new number = $100 + 20\%$ of 100

New number = $100 + 20 = 120$

Now, after decrease in new number, final number = $120 - 20\%$ of 120

Final number = $120 - 24 = 96$

Now, net decrease = $\left(\frac{100 - 96}{100} \right) \times 100 = 4\%$

Hence the net percentage decrease is 4%.

Question 77 :

Select the most appropriate option to fill in the blank. The anchor gave us a _____ welcome, a pleasant smile and a bouquet on reaching the hotel.

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. warm
2. worth
3. winning
4. wonderful

Solution :

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

The meaning of the given words is:

- **Warm** can be used to describe a friendly and welcoming atmosphere, which is exactly what the anchor provided in the sentence.
- **Worth** means value or usefulness, which does not fit the context of the sentence.



Winning means achieving victory or success, which is not appropriate in this context.

- **Wonderful** means extremely good or enjoyable, which is close in meaning to "warm," but not as appropriate in this context as "warm" because "warm" specifically connotes a welcoming atmosphere.

Thus, the most appropriate filler for the given blank is **warm**.

Therefore, the correct sentence is:

The anchor gave us a **warm** welcome, a pleasant smile and a bouquet on reaching the hotel.

Question 78 :

Select the correct passive voice form for the given sentence. Rashi was writing a letter to her husband.

Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. A letter was being written by Rashi to her husband.
2. A letter were being written by Rashi to her husband.
3. A letter was been written by Rashi to her husband.
4. A letter were been written by Rashi to her husband.

Solution :

The correct answer is **Option 1** i.e. **A letter was being written by Rashi to her husband.**

To convert the given sentence into its passive form, we follow these rules:

1. Identify the object of the active sentence, which in this case is "a letter."
2. Move the object to the beginning of the sentence and make it the subject of the passive sentence. In this case, "a letter" becomes the subject of the passive sentence.
3. Use the appropriate form of the verb "to be" (was) followed by the past participle of the main verb (writing) to form the passive voice. So, "was writing" becomes "was being written."
4. Add the preposition "by" to introduce the agent (the person or thing performing the action) of the active sentence. In this case, the agent is Rashi.

Thus, the passive form of the given sentence would be:

A letter was being written by Rashi to her husband.

Question 79 :

Select the option that can be used as a one-word substitute for the given group of words. The study of languages



Difficulty : Moderate

Average Time : 89 Seconds

Options :

1. Philology
2. Anthropology
3. Lexicography
4. Philosophy

Solution :

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

The meaning of the given words is:

- **Philology**: It is the study of language in written historical sources, often characterized by an emphasis on the history and evolution of languages, their relationships to one another, and their cultural and social contexts.
- **Anthropology**: It is the study of human societies, cultures, and physical characteristics, often characterized by an emphasis on the social, cultural, and biological dimensions of human life and experience.
- **Lexicography**: It is the practice of compiling, editing, and publishing dictionaries, often characterized by an emphasis on the meaning, usage, and history of words, their origins and evolution, and their relationships to other words.
- **Philosophy**: It is the study of fundamental questions about existence, knowledge, values, reason, and reality, often characterized by an emphasis on critical thinking, argumentation, and logical analysis.

Thus, the most appropriate one word substitution for the given set of words is **Philology**.

Question 80 :

Select the most appropriate ANTONYM of the given word. Exemplary

Difficulty : Moderate

Average Time : 78 Seconds

Options :

1. Flattering
2. Unsatisfactory
3. Imitative



Desirable

Solution :

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

The meanings of the given words are:

- **Exemplary:** It means serving as a worthy example or model, often characterized by being commendable, admirable, or exemplary.
- **Unsatisfied:** It means not content or fulfilled, often characterized by being dissatisfied, unhappy, or unfulfilled. Something or someone that is unsatisfied can be incomplete or wanting.
- **Flattering:** It means giving praise or compliments, often characterized by being complimentary, laudatory, or adulatory.
- **Imitative:** It means copying or emulating something or someone, often characterized by being mimetic, mimicking, or imitating.
- **Desirable:** It means worth having or seeking, often characterized by being attractive, appealing, or desirable.

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

Question 81 :

Choose the incorrectly spelt word.

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. Irritating
2. Pedestrian
3. Enervating
4. Beguiling

Solution :

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

The correct spelling and meanings of the given words are:

- **Beguiling:** It means charming or attractive in a deceptive way, often characterized by being alluring, captivating, or

enchanting. Something or someone that is beguiling can be seductive or misleading.

- **Irritating:** It means causing annoyance, frustration, or discomfort, often characterized by being bothersome, vexing, or grating.
- **Pedestrian:** It means lacking in inspiration, creativity, or excitement, often characterized by being ordinary, dull, or commonplace. Something or someone that is pedestrian can be uninspiring or unremarkable.
- **Enervating:** It means causing one to feel drained of energy or vitality, often characterized by being exhausting, weakening, or debilitating.

Question 82 :

Select the option that can be used as a one-word substitute for the given group of words. Sharp and direct

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. Acerbic
2. Zoonic
3. Anodyne
4. Acidic

Solution :

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

The meaning of the given words is:

- **Acerbic:** It means sharp, bitter, or sarcastic in tone or taste, often characterized by a harsh or biting quality.
- **Zoonic:** This is not a commonly used word in English. If it was intended to be "zoological," then it means relating to the study or science of animals, often characterized by an emphasis on the behavior, physiology, and classification of different animal species.

Anodyne: It means something that relieves pain or discomfort, often characterized by being soothing, calming, or healing.

- **Acidic:** It means having a pH level lower than 7 on the pH scale, often characterized by a sour or sharp taste.

Thus, the most appropriate one word substitution for the given set of words is **Acerbic**.

Question 83 :

Select the most appropriate synonym of the given word. Keen

Difficulty : Moderate

Average Time : 72 Seconds

Options :

1. Happy
2. Enthusiastic
3. Wild
4. Imitate

Solution :

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

The meaning of the given words is:

- **Keen:** It means having a sharp, penetrating or acute mental or physical perception, often characterized by being quick to understand, perceptive or observant.
- **Enthusiastic:** It means showing intense and eager enjoyment, interest, or approval for something, often characterized by being passionate, fervent, or zealous.
- **Happy:** It means feeling or showing pleasure or contentment, often characterized by being joyful, elated, or pleased.
- **Wild:** It means untamed or uncultivated, often characterized by being natural, unrestrained, or uncontrolled.
- **Imitate:** It means to copy or mimic the behavior, appearance, or mannerisms of someone or something, often characterized by reproducing or emulating their actions or style.

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

Question 84 :

Select the INCORRECTLY spelt word.

Difficulty : Moderate

Average Time : 71 Seconds



Options :

1. Adopt
2. Acces
3. Abandon
4. Abase

Solution :

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

The correct spelling and meanings of the given words are:

- **Access:** It means the ability to enter, use, or retrieve something, often characterized by having permission or authorization.
- **Adopt:** It means to take on or assume something, often characterized by making it one's own.
- **Abandon:** It means to leave something behind, often characterized by giving up, relinquishing, or deserting.
- **Abase:** It means to belittle, degrade, or humiliate someone, often characterized by lowering their status or dignity.

Question 85 :

Select the option that can be used as a one-word substitute for the underlined group of words. After my father passed away, I used to look at a series of stars, trying to find the unknown.

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. Galaxy
2. Constellation
3. Caravan
4. Horde

Solution :

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

The meaning of the given words is:



Constellation: It means a group of stars that forms a recognizable pattern, often named after mythological characters, animals, or objects.

- **Galaxy:** It means a large system of stars, interstellar gas, and other celestial bodies, held together by gravity.
- **Caravan:** It means a group of travelers, often consisting of merchants, pilgrims, or nomads, who travel together for safety and companionship.
- **Horde:** It means a large, disorganized group of people, often characterized by aggression, chaos, or violence.

Thus, the most appropriate one word substitution for the given set of words is **Constellation**.

Question 86 :

Select the option that can be used as a one-word substitute for the given group of words. One who does something not professionally but for pleasure

Difficulty : Moderate

Average Time : 70 Seconds

Options :

1. Professional
2. Mature
3. Immature
4. Amateur

Solution :

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

The meaning of the given words is:

- **Amateur:** It means a person who engages in an activity, often a hobby or sport, without being a professional or receiving payment for their participation.
- **Professional:** It means a person who is engaged in a particular profession, often requiring specialized training or education, and who earns their living by practicing that profession.
- **Mature:** It means having reached a fully developed or advanced stage of growth, often characterized by emotional stability, wisdom, and good judgment.
- **Immature:** It means not fully developed or grown, often characterized by a lack of emotional stability, wisdom, or good judgment.



Thus, the most appropriate one word for the given set of words is **Amateur**.

Question 87 :

Select the most appropriate ANTONYM of the word 'polite' in the given sentence. The rude and insensitive murderer pleaded for mercy in the court.

Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. Pleased
2. Mercy
3. Insensitive
4. Rude

Solution :

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

The meaning of the given words is:

- **Polite:** It means having or showing good manners, respect, and consideration for others, often characterized by courteous or gracious behavior.
- **Rude:** It means showing a lack of consideration or respect for others, often characterized by impolite or discourteous behavior.
- **Pleaded:** It means to make an emotional or earnest appeal, often characterized by begging, beseeching, or imploring.
- **Mercy:** It means compassion or forgiveness shown toward someone who is in a position of vulnerability or facing punishment, often characterized by leniency or clemency.
- **Insensitive:** It means lacking in empathy or understanding of other people's feelings, often characterized by being unfeeling, indifferent, or callous.

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

Question 88 :

The following sentence has been split into four segments. Identify the segment that contains an error. The newspaper reported / that it was a mystery / how the thieves enter / into the house.



Difficulty : Moderate

Average Time : 78 Seconds

Options :

1. into the house
2. how the thieves enter
3. that it was a mystery
4. The newspaper reported

Solution :

The correct answer is **Option 2** i.e. **how the thieves enter**.

- The error lies in third part of the given sentence.
- The sentence is in the past tense, so the verb "enter" needs to be in the past tense as well to match the tense of the sentence.
- The correct verb form of "enter" in the past tense is "entered," but the sentence uses the present tense form "enter."
- The correct phrase should be "how the thieves entered."

Therefore, the corrected sentence would be:

*"The newspaper reported that it was a mystery how the thieves **entered** into the house."*

Question 89 :

Select the word that is OPPOSITE in meaning to the given word. Adversity

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. Fortune
2. Affliction
3. Brilliance
4. Penury

Solution :

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

The meaning of the given words is:

- **Adversity**: It means a difficult or unpleasant situation, often caused by external circumstances or events beyond



one's control, that creates hardship or obstacles.

- **Fortune:** It means a great amount of wealth or resources, often accumulated through luck or successful endeavors.
- **Affliction:** It means a condition of suffering or distress, often caused by illness, injury, or other adverse circumstances.
- **Brilliance:** It means the quality of being exceptionally intelligent, talented, or creative; or having a great luster or brightness.
- **Penury:** It means extreme poverty or destitution, often characterized by a lack of basic necessities such as food, clothing, or shelter.

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

Question 90 :

Select the option that expresses the given sentence in active voice. Let the farewell be bidden to our seniors.

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. We should be bidden farewell by our seniors.
2. Our seniors should bid farewell to us.
3. Let us bid farewell to our seniors.
4. Our seniors should be bidden farewell.

Solution :

The correct answer is **Option 3** i.e. **Let us bid farewell to our seniors**.

To convert a sentence from passive voice to active voice, we can follow these rules:

- Identify the subject and the object of the sentence.
 - In this case, the subject is "farewell," and the object is "our seniors."
- Determine the tense and the verb form of the verb "be bidden."
 - The tense of the verb is present perfect passive, and the verb form is "be bidden."
- Move the object to the subject position in the active voice sentence and make it the doer of the action.

- "Our seniors" become the subject in the active voice sentence.
- Use an active verb form that agrees with the new subject.
 - Change "be bidden" to "bid" to match the subject "our seniors."
 - If the sentence has a preposition followed by an object, rephrase the preposition and place the object after the verb in the active sentence.
 - There is no preposition in the given sentence.
 - If the sentence has an agent introduced by "by," include it in the active sentence as the doer of the action, preceded by the preposition "by."
 - There is no agent in the given sentence.

So, the active form of the given sentence would be:

"Let us bid farewell to our seniors."

Question 91 :

Rearrange the parts of the sentence in correct order. The nanostructures on the P. with added, or "doped," iron and phosphor Q. surface made of nickel selenide R. offers the high performance and stability S. that are needed for industrial-scale electrolysis

Difficulty : Moderate

Average Time : 123 Seconds

Options :

1. QPRS
2. QRSP
3. RPQS
4. SPQR

Solution :

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

- One of the accurate way of rearranging sentences to form a coherent sentence is to identify the subject, verb and the object in para jumbled sentences.
- Clearly, in the given sentence the subject is 'The nanostructures on the surface made of nickel selenide.'
- The verb and object in the given sentence is 'offers' and 'the high performance and stability that are needed for industrial-scale electrolysis' respectively.



Further, sentences provide additional information.

- By rearranging the sentence by placing the subject, verb, and object in their appropriate positions, and also incorporating the additional information in a logical way, we will be able to form a coherent sentence.

Therefore, the correct paragraph is:

The nanostructures on the surface made of nickel selenide, with added, or "doped," iron and phosphor, offer the high performance and stability that are needed for industrial-scale electrolysis.

Question 92 :

Parts of the following sentence have been given as options. Select the option that contains a grammatical error. If you don't find any error, mark 'No error' as your answer. Amla juice / is rich with / Vitamin C. / no error

Difficulty : Moderate

Average Time : 81 Seconds

Options :

1. Vitamin C.
2. Amla juice
3. No error
4. is rich with

Solution :

The correct answer is **Option 4** i.e. **is rich with**.

The error lies in part to of the sentence, where the word 'with' is wrongfully used.

- The word **with** is used to describe when two people are accompanying each other to go somewhere.
- Whereas, the word **in** is generally used to describe where an object is put or an animal.
- Thus, to rectify the sentence, 'with' should be replaced with 'in'.

The correct sentence is:

*Amla juice is rich **in** Vitamin C.*

Question 93 :

Select the correct indirect form of the given sentence. Kavya said to her husband, "I don't mind being a busy woman."

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. Kavya told her husband that she had not mind being a busy woman.

Kavya told her husband that she do not mind being a busy woman.

3. Kavya said to her husband she did not mind being a busy woman.

4. Kavya told her husband that she did not mind being a busy woman.

Solution :

The correct answer is **Option 4** i.e. **Kavya told her husband that she did not mind being a busy woman.**

The grammatical rule followed to convert the given sentence to its indirect form is:

- Identify the reporting verb or the verb of saying, which is 'said.'
- Remove the comma and the inverted commas used in the direct speech.
- Use the conjunction 'that' to join the reporting verb with the reported speech.
- Change the tense of the reported speech, i.e., 'don't mind' to 'did not mind.'
- Replace said that with told..

Therefore, the indirect form of the given sentence would be:

Kavya told her husband that she did not mind being a busy woman.

Question 94 :

The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P. The award is named after Alfred Nobel, the Swedish inventor of dynamite. Q. A Nobel Prize is an award that is given to someone whose work has benefitted society. R. This award is given in six categories, and medicine is one of those categories. S. This year Professors David Julius and Ardem Petapoutian have won this prize for medicine.

Difficulty : Moderate

Average Time : 98 Seconds

Options :

1. SPQR
2. PQSR
3. SQRP
4. QPRS

Solution :

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

- The paragraph starts with the explanation of the Nobel Prize as an award that is given to someone whose work has

benefitted society (sentence Q).

- Sentence P provides additional information about the award, stating that it is named after Alfred Nobel, the Swedish inventor of dynamite.
- Sentence R establishes that the Nobel Prize is given in six categories, including medicine.
- Finally, sentence S provides a specific example of the award in action by stating that Professors David Julius and Ardem Petapoutian have won the prize for medicine this year.

Thus, the coherent paragraph is:

A Nobel Prize is an award that is given to someone whose work has benefitted society. The award is named after Alfred Nobel, the Swedish inventor of dynamite. This award is given in six categories, and medicine is one of those categories. This year Professors David Julius and Ardem Petapoutian have won this prize for medicine.

Question 95 :

Select the most appropriate option to fill in the blank. They hired her to increase sales, but her strategies failed to _____.

Difficulty : Moderate

Average Time : 78 Seconds

Options :

1. move the needle
2. burn bridges
3. spill the beans
4. get a second wind

Solution :

The correct answer is **Option 1** i.e. **move the needle**.

- The given sentence is about the failure of a person's strategies to increase sales.
- Among the options given, the phrase that appropriately fits in the blank and conveys the meaning of the sentence is "move the needle".
- "Move the needle" is a business jargon that means to make a significant difference or bring about a noticeable change.
- In this context, the phrase "move the needle" means the strategies failed to make a significant difference in increasing sales.

Thus, the completed sentence is:

*They hired her to increase sales, but her strategies failed to **move the needle**.*

**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. We believe our value is in direct proportion to the value of our accomplishments. If we cannot accomplish certain results, we tend to feel (1)_____ about ourselves. Some of us try too hard and become workaholics and over-achievers. With a few genuine feelings of self-worth, we try to create some and prove that we are somebody by our successes and (2)_____. Because our desire for perfection is so great, we (3)_____ to set unrealistic goals and place unreasonable demands on ourselves. Failing, rather than encouraging us to have realistic aspirations, only leads to a mere punishing round of self-blame and a resolve to drive ourselves harder next time. If we do not finally achieve our goals, we are (4)_____; despite everything we have done, we still feel (5)_____ inside.

Question 96 :

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

Difficulty : Moderate

Average Time : 105 Seconds

Options :

1. high
2. good
3. low
4. better

Solution :

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

- The sentence talks about the correlation between our accomplishments and our self-worth. The word "value" is used in this context.
- We need to choose the option that describes how we feel about ourselves when we cannot accomplish certain results.
- The word "low" is the correct answer here. When we cannot accomplish certain results, we tend to feel low about ourselves, which means we feel sad, depressed, or lacking in confidence.

Therefore, the correct sentence would be:

*If we cannot accomplish certain results, we tend to feel **low** about ourselves.*

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. We believe our value is in direct proportion to the value of our accomplishments. If we cannot accomplish certain results, we tend to feel (1)_____ about ourselves. Some of us try too hard and become workaholics and over-achievers. With a few genuine feelings of self-worth, we try to create some and prove that we are somebody by

our successes and (2)____. Because our desire for perfection is so great, we (3)_____ to set unrealistic goals and place unreasonable demands on ourselves. Failing, rather than encouraging us to have realistic aspirations, only leads to a mere punishing round of self-blame and a resolve to drive ourselves harder next time. If we do not finally achieve our goals, we are (4)____; despite everything we have done, we still feel (5)_____ inside.

Question 97 :

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

Difficulty : Moderate

Average Time : 99 Seconds

Options :

1. anxiety
2. obstacles
3. actions
4. achievements

Solution :

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

- The sentence talks about how people try to prove their worth by their successes and something else.
- Out of the given options, the word that fits in the blank is 'achievements', as it refers to a person's accomplishments or successes.

Therefore, the correct sentence is:

*With a few genuine feelings of self-worth, we try to create some and prove that we are somebody by our successes and **achievements**.*

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. We believe our value is in direct proportion to the value of our accomplishments. If we cannot accomplish certain results, we tend to feel (1)_____ about ourselves. Some of us try too hard and become workaholics and over-achievers. With a few genuine feelings of self-worth, we try to create some and prove that we are somebody by our successes and (2)____. Because our desire for perfection is so great, we (3)_____ to set unrealistic goals and place unreasonable demands on ourselves. Failing, rather than encouraging us to have realistic aspirations, only leads to a mere punishing round of self-blame and a resolve to drive ourselves harder next time. If we do not finally achieve our goals, we are (4)____; despite everything we have done, we still feel (5)_____ inside.

Question 98 :

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



Difficulty : Moderate

Average Time : 92 Seconds

Options :

1. come
2. tend
3. wish
4. crave

Solution :

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

- The sentence talks about a strong desire for perfection that leads to setting unrealistic goals and unreasonable demands on oneself.
- Among the given options, the most appropriate verb to fill in the blank would be 'wish.'
- The verb 'wish' in this context implies a strong desire or longing for something, which accurately reflects the idea conveyed in the sentence.

The sentence would then read:

Because our desire for perfection is so great, we **wish** to set unrealistic goals and place unreasonable demands on ourselves.

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. We believe our value is in direct proportion to the value of our accomplishments. If we cannot accomplish certain results, we tend to feel (1)_____ about ourselves. Some of us try too hard and become workaholics and over-achievers. With a few genuine feelings of self-worth, we try to create some and prove that we are somebody by our successes and (2)_____. Because our desire for perfection is so great, we (3)_____ to set unrealistic goals and place unreasonable demands on ourselves. Failing, rather than encouraging us to have realistic aspirations, only leads to a mere punishing round of self-blame and a resolve to drive ourselves harder next time. If we do not finally achieve our goals, we are (4)_____; despite everything we have done, we still feel (5)_____ inside.

Question 99 :

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

Difficulty : Moderate

Average Time : 97 Seconds

Options :

1. disappointed

flattered

3. protected

4. glad

Solution :

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

- The sentence is talking about the possibility of not achieving the goals despite the efforts, which would lead to a negative emotion.
- The word that fits best in this context is "disappointed."
- The word "disappointed" means feeling sad or displeased because something did not turn out as expected.
- In the given context, it indicates that not achieving the goals despite the efforts would lead to a negative emotion of sadness and dissatisfaction.

So, the corrected sentence would be:

If we do not finally achieve our goals, we are disappointed; despite everything we have done, we still feel empty inside.

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. We believe our value is in direct proportion to the value of our accomplishments. If we cannot accomplish certain results, we tend to feel (1)_____ about ourselves. Some of us try too hard and become workaholics and over-achievers. With a few genuine feelings of self-worth, we try to create some and prove that we are somebody by our successes and (2)_____. Because our desire for perfection is so great, we (3)_____ to set unrealistic goals and place unreasonable demands on ourselves. Failing, rather than encouraging us to have realistic aspirations, only leads to a mere punishing round of self-blame and a resolve to drive ourselves harder next time. If we do not finally achieve our goals, we are (4)_____; despite everything we have done, we still feel (5)_____ inside.

Question 100 :

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

Difficulty : Moderate

Average Time : 104 Seconds

Options :

1. satisfied

2. empty



lively

4. honoured

Solution :

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

- The phrase "despite everything we have done" suggests that the subject has put in efforts to change the situation, but still, they feel a certain way. The word that fits best in this context is "empty."
- The word "empty" means lacking meaning, substance, or value. In the given context, it indicates that despite the subject's efforts, they still feel like something is missing or lacking in their lives.

So, the corrected sentence would be:

Despite everything we have done, we still feel empty inside.

Ssc Cgl Tier I Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2022-12-03 in the Evening 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 English Language, 25 questions were asked from Quantitative Aptitude and 25 questions were asked from General Awareness
4. 33 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 - 5
3. Classification - 2
4. Blood Relations - 2
5. Syllogism - 2
6. Dictionary Based - 1

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

English Language

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



Quantitative Aptitude

- 1. Arithmetic - 25

General Awareness

- 1. GK Misc - 25

Ssc Cgl Tier I Previous Year Question Paper Tips and Tricks



1. Try to solve Ssc Cgl Tier I Previous Year Question Paper without taking any help from the solutions.
2. Ssc Cgl Tier I Previous Year Question Paper require proper usage of concept so firstly read the question thoroughly and then use the right concept.
3. In case you're not able to solve the question in less than 30 seconds in the exam then you should skip the question and move to the next question.

Daily Current Affairs



KD Live is providing [Current Affairs](#) on a daily basis for SSC and a [Current Affairs Quiz](#) too for the practice.

KD Live Free Offerings



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

- [Study Plan](#)
- [General Science](#)
- [General Awareness](#)
- [General Knowledge](#)
- [Quantitative Aptitude](#)
- [Logical Reasoning](#)
- [English Language](#)
- [Today In History](#)
- [Syllabus](#)
- [Know Your State](#)
- [Know Your Country](#)
- [Know Your City](#)
- [Know Your Leader](#)
- [Books And Authors](#)
- [Daily Vocabulary](#)
- [Daily Editorial](#)
- [Latest Notifications](#)
- [Exam Dates](#)
- [Admit Card](#)
- [Exam Results](#)
- [Exam Cutoff](#)
- [Exam Eligibility](#)
- [Exam Pattern](#)





[Answer Key](#)
[Important Days](#)

Further Guidance on Ssc Cgl Tier I Previous Year Question Paper

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

About KD Live

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

About Neetu Mam

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