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

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

Question 1 :

By Interchanging the given two numbers which of the following equation will be not correct? 5 and 9

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

Options :

1. $9 \times 4 + 5 - 8 \div 2 = 25$

2. $9 - 5 \times 4 + 6 \div 3 = -30$

3. $9 + 7 \times 8 \div 4 - 5 = 10$

4. $9 - 4 \times 5 + 6 \div 2 = -28$

Solution :

The correct answer is **Option 2** i.e. **$9 - 5 \times 4 + 6 \div 3 = -30$.**

Given conditions: 5 and 9

Option 1: $9 \times 4 + 5 - 8 \div 2 = 25$

After interchanging the expression becomes:

$= 5 \times 4 + 9 - 8 \div 2 = 25$

$= 5 \times 4 + 9 - 4$

$= 20 + 9 - 4$

$= 29 - 4$

= 25 is equal to 25.

Option 2: 9 – 5 × 4 + 6 ÷ 3 = –30

After interchanging the expression becomes:

= 5 – 9 × 4 + 6 ÷ 3 = –30

= 5 – 9 × 4 + 2

= 5 – 36 + 2

= -29 is not equal to -30.

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

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

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. Academic life has (1) _____ demanding for students as a result of different internal and external expectations. Teenagers are especially (2)_____ to academic stress because they go through so many personal and social changes. As a result, designing effective and efficient (3) _____ solutions requires a thorough understanding of the causes and consequences of academic stress. Exams are one of the (4)_____ aspects of anyone's life. Exams are stressful for everyone, whether they are students or adults because everyone wants to perform well and no one wants to fail as to avoid (5) _____ in future.

Question 2 :
Select the most appropriate option to fill in blank number 4.

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

Options :
1. more important
2. most eager
3. most crucial
4. more urgent

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

- All options provided are comparative and superlative adjectives, which are used to compare the degree of qualities between two or more nouns.

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In this case, we need to select the appropriate adjective to describe the noun "aspects" as being of the highest degree or degree of comparison.

- Out of the given options, "most crucial" would be the most appropriate choice for the blank space, as it denotes the highest degree of importance, which is appropriate in the context of the sentence.

Therefore, the grammatically correct sentence would be:

*"Exams are one of the **most crucial** aspects of anyone's life."*

Question 3 :

In the given sentence the underlined word may have been incorrectly spelt. Identify the option that rectifies the spelling. If there is no error in spelling, select 'No error'. Getting a compliment from her husband was a rare occurrance in Rashmila's life.

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

Options :

1. occurrence

2. ocurrance

3. No error

4. ocurrancce

Solution :

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

The correct spelling and meaning of the underlined word are:

- **Occurrence:** an incident or event.

Therefore, option 1 would be the most appropriate choice.

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. Academic life has (1) _____ demanding for students as a result of different internal and external expectations. Teenagers are especially (2)_____ to academic stress because they go through so many personal and social changes. As a result, designing effective and efficient (3) _____ solutions requires a thorough understanding of the causes and consequences of academic stress. Exams are one of the (4)_____ aspects of anyone's life. Exams are stressful for everyone, whether they are students or adults because everyone wants to perform well and no one wants to fail as to avoid (5) _____ in future.

Question 4 :

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

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

Options :

1. becomes
2. became
3. become
4. becoming

Solution :

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

- The given sentence requires the selection of the appropriate verb tense to fit the grammatical structure and context of the sentence.
- The verb "become," is an irregular verb that indicates a change of state or condition over time.
- The sentence is in the present tense, so we need to select an irregular verb.
- Thus, the verb "become" fits the grammatical structure appropriately.

Therefore, the correct sentence would be:

*Academic life has **become** demanding for students as a result of different internal and external expectations.*

Question 5 :

Which of the following is NOT a classification of E-Commerce?

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

Options :

1. B2C (Business-to-Consumer)
2. D2D (Distributor-to-Distributor)
3. C2C (Consumer-to-Consumer)
4. B2B (Business-to-Business)

Solution :

The correct answer is **Option 2.** i.e. **D2D (Distributor-to-Distributor).**

In e-commerce, six categories are included under this classification:

- Businesses to Businesses (B2B) and its subtypes-
- Businesses to Government (B2G), Businesses to Consumers (B2C), Businesses to Businesses (C2B), Consumers to Consumers (C2C), and Governments to Businesses (G2B).

Businesses to Businesses (B2B)	This group includes business-to-business exchanges including retailers and wholesalers, for example. It may involve supply chain management, e-procurement, e-transactions, and buy negotiations.
Businesses to Consumers (C2C)	Utilizing internet technologies, a firm offers customers products and services. Selling, delivering, and offering digital services like search engines and online periodicals are examples of this
Consumers to Consumers (C2C)	A place where individuals (rather than businesses) exchange goods, services, or information with other individuals. eBay is a well-known illustration of this e-commerce paradigm.
Governments to Businesses (G2B)	Refers to the exchange of products and services between businesses and governmental or quasi-governmental organizations, including the military, police, hospitals, and schools.

Question 6 :

Chief Minister Shramik Kalyan Prakalp scheme was launched by Amit Shah for women of _____.

Difficulty : Moderate

Average Time : 90 Seconds

Options :

1. Bihar

2. Tripura

3. Haryana

4. Jharkhand

Solution :

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

A unique program called **"Mukhyamantri Chaa Srami Kalyan Prakalpa"** for tea workers has been announced by the Tripura government. To bring the 7000 tea garden employees in Tripura within the social security umbrella, a special program with a budget of Rs. 85 crores has been established. By combining the benefits that the state government and the federal government are required to provide, this unique plan would secure housing, rations, and financial support for the workers in the tea gardens.

Question 7 :

Select the most appropriate synonym of the underlined word in the given sentence. The perils of smoking tobacco can never be ignored.

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

Options :

1. Delights

2. Benefits

3. Hazards

4. Humiliations

Solution :

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

The meanings of the given words are:

- **Perils**: dangers or risks that can cause harm or damage.

- **Hazards**: potential sources of harm or danger that can cause injury or damage.

- **Delights**: things that bring joy, happiness or pleasure.

- **Benefits**: advantages, profits, or rewards gained from something.

- **Humiliations**: the state of feeling ashamed, embarrassed, or degraded due to an event or situation.

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

Question 8 :

Select the most appropriate option that can substitute the underlined segment in the given sentence. I am been working here for the past ten years.

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. have been working here

2. is been working here

3. was been working here

4. had been working here

Solution :

The correct answer is **Option 1** i.e. **have been working here.**

- The given sentence contains a grammatical error.
- The use of "am been" in the sentence is incorrect.
- "Been" is the past participle form of the verb "be" and should only be used in the present perfect and past perfect tenses.
- In the given sentence, "am" indicates present tense, but "been" indicates past tense.
- The correct phrase is "I have been working here for the past ten years" where "have been" indicates the present perfect tense.

Thus, the correct sentence is:

I **_have been working here_** for the past ten years.

Question 9 :

Select the most appropriate option to fill in the blank. Seeing my messy room, my mother taught me to keep every thing in order. Now my room is _____.

Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. on demand

2. of no avail

spick and span

4. high and dry

Solution :

The correct answer is **Option 3** i.e. **spick and span.**

The meanings of the given phrases are:

- **Spick and span:** neat, clean, and well looked after.

- **On demand** means something that is available immediately or when requested.

- **Of no avail** means something that is not useful or effective, something that does not bring the desired result or outcome.

- **High and dry** means a situation where someone is left without any help or support, abandoned, stranded or left in a difficult position.

Thus, the correct sentence would be:

Seeing my messy room, my mother taught me to keep every thing in order. Now my room is **spick and span.**

Question 10 :
Select the most appropriate option that can substitute the underlined segment in the given sentence. Last before year, Shirley got very good grades.

Difficulty : Moderate

Average Time : 75 Seconds

Options :

1. The last year before

2. Before last year

3. The year before last

4. Before year last

Solution :

The correct answer is **option 3** i.e. **The year before last**

- The underlined segment "Last before year" in the given sentence is grammatically incorrect.
- The use of the article "before" is incorrect here, as it does not make sense in the context of the sentence.

Thus, should be replaced with "The year before ".

A correct version of the sentence would be:

The year before last, Shirley got very good grades.

Question 11 :
Select the correct indirect form of the given sentence. Latika said to him, "I got a hefty discount on this television."

Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. Latika told him that she has got a hefty discount on that television.

2. Latika told him that she is getting a hefty discount on that television.

3. Latika told him that she had got a hefty discount on that television.

4. Latika told him that she has got a hefty discount on this television.

Solution :
The correct answer is **Option 3** i.e. **Latika told him that she had got a hefty discount on that television.**

- The following steps should be followed to convert the given direct form of the sentence into its indirect form:
- Change the reporting verb, 'said' to 'told'.
- The inverted commas will be replaced by that and comma should be removed.
- The pronoun "I" changes in accordance to the reporter i.e., 'she' and the auxiliary verb changes according to the sentence.
- The direct speech is in **simple past tense** changes to **past perfect tense** on conversion.

Thus, the correct form of indirect sentence is:

Latika told him that she had got a hefty discount on that television.

Question 12 :
Who was the captain of the Indian hockey men's team at Olympics 2020?

Difficulty : Moderate

Average Time : 80 Seconds

Options :
1. Manpreet Singh

Amit Rohidas

3. Sreejesh Ravindran

4. Krishan B Pathak

Solution :

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

The Indian men's hockey team is led by Manpreet Singh, and the women's squad is under the direction of Rani Rampal. At Tokyo 2020, both served as the captain of their teams. On July 24, Manpreet Singh, playing for India's men's hockey team, left the game against New Zealand in Tokyo 2020, making him the 21st captain to do so.

Additional Information-

The 2020 Summer Olympics, officially known as the Games of the XXXII Olympiad and sometimes referred to as Tokyo 2020, was an international multi-sport competition held in Tokyo, Japan, from July 23, 2021, to August 8, 2021, with certain preparatory events starting on July 21, 2021. During the 125th IOC Session in Buenos Aires, Argentina, on September 7, Tokyo was chosen as the host city.

Theme- "Moving Forward: United by Emotion"

Question 13 :

An exponent of Hindustani classical music, Gangubai Hangal was an eminent singer to have hailed from the _____ gharana of the Hindustani Khyal family.

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

Options :

1. Patiala

2. Kirana

3. Agra

4. Gwalior

Solution :

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

Karnataka-born Hindustani classical music performer Gangubai Hangal, who was recognized for her rich, strong voice, was born on 5 March 1913 and passed away on 21 July 2009. **Hangal was a member of the Kirana Gharana** and practiced the khyal genre of Hindustani classical music beginning in the early 1930s.

- **1971:** Was bestowed with the Padma Bhushan from the Indian government.
- **1973:** Received the Sangeet Natak Akademi Award
- **2002:** Received the Padma Vibhushan.

Question 14 :

Which of the following statements is NOT correct concerning the election of the President of India?

Difficulty : Moderate   Average Time : 59 Seconds

Options :

1. He/She is indirectly elected by the elected MLAs and MP_S.

2. The President is elected for a period of five years.

3. All doubts and disputes in connection with the President's election can be inquired into and decided by both the Supreme Court and the High Courts

4. The election takes place in accordance with the principle of proportional representation.

Solution :

The correct answer is **Option 3.** i.e. **All doubts and disputes in connection with the President's election can be inquired into and decided by both the Supreme Court and the High Courts.**

The procedure of Election of President-

The method of the President's election is outlined in **Article 55**. It states that-

- An electoral college indirectly elects the president. Lok Sabha, Rajya Sabha, state legislatures, and the legislatures of Delhi, Jammu & Kashmir, and Puducherry (since 1992 under the 70th Constitutional Amendment Act) make up the electoral college for the presidential election.
- A secret ballot must be used for the election.
- One transferable vote will be used to conduct the election by the proportional representation method.
- After taking office, the President will serve a term of five years.

According to Article 71 of the Constitution, all doubts and disputes arising out of or in connection with the election of a President or Vice-President shall be inquired into and decided by the Supreme Court.

Question 15 :

_____ takes oath as the new Meghalaya Governor in October 2022.

Difficulty : Moderate   Average Time : 93 Seconds

Options :

1. B.D. Mishra

2. A K Anil Kumar

3. Prashant Kumar

4. Sunil Barthwal

Solution :

The correct answer is **Option 1.** i.e. **B.D. Mishra.**

In 2022, BD Mishra was sworn in as the new governor of Meghalaya during a ceremony held in the Raj Bhavan.

- Mishra, a former brigadier in the Indian Army, was assigned the extra responsibility of governing adjoining Meghalaya in addition to his current duties as governor of Arunachal Pradesh.
- On October 3, **Satya Pal Malik's** tenure as governor of Meghalaya came to an end. Senior members of the cabinet, including Assembly Speaker Metbah Lyngdoh, attended the event.

Question 16 :

How thick is the lithosphere?

Difficulty : Moderate   Average Time : 59 Seconds

Options :

1. 25 to 45 kilometres

   10 to 25 kilometres

3. 10 to 200 kilometres

4. 5 to 10 kilometres

Solution :

The correct answer is **Option 3.** i.e. **10 to 200 kilometers.**

> The term "lithosphere" refers to the solid, thinnest, and lightest layer of the earth. The lithosphere is around 100 km thick. Granite makes up the majority of it. The outer layer and the inner layer are the two layers that make up the lithosphere. The lithosphere includes **the brittle upper portion of the mantle and the crust**, the outermost layers of Earth's structure.

Question 17 :

Who among the following is related to the musical instrument Santoor?

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

Options :

1. Pandit Shivkumar Sharma

2. Pandit Ravishankar Prasad

3. Pandit Hariprasad Chaurasia

4. Pandit Jasraj

Solution :

The correct answer is **Option 1.** i.e. **Pandit Shivkumar Sharma**

Indian classical musician and santoor player Pandit Shivkumar Sharma is credited with modifying the santoor for use in Indian classical music. He hails from the Union territory of Jammu & Kashmir.

1. He was given a Sangeet Natak Akademi award (India's national academy of Music, dance, and Theatre) in 1986 for his distinctive contribution to Indian music.
2. Additionally, he received the **Padma Vibhushan (2001) and the Padma Shri (1991), two of the highest civilian honor in the nation**.
3. In 2002, Sharma and Ina Puri released their book, Journey with a Hundred Strings: My Life in Music.

Question 18 :

Three different positions of the same dice are shown (Figures 1 to 3). Find the number on the face opposite to the face having '1'.

Difficulty : Moderate

Average Time : 64 Seconds

Options :

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

Solution :

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

In the first and second cubes, 2 and 4 are common. So, the remaining face is opposite to each other.

So, 3 is opposite to 6.

In the second and third cubes, 3 and 4 are common. So, the remaining face is opposite to each other.

So, 5 is opposite to 2.

Hence, the remaining opposite pair is 1 and 4.

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

Question 19 :

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

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. ECONOMIST (mirror image)
2. ECONOMIST (mirror image)
3. ECONOMIST (mirror image)
4. ECONOMIST (mirror image)

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Solution :

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

The mirror image of the question figure is shown below:

ECONOMIST ᴛꙅⵑMOᴎOƆƎ

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

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

Question 20 :
Select the figure from among the given options that can replace the question mark (?) in the following series.

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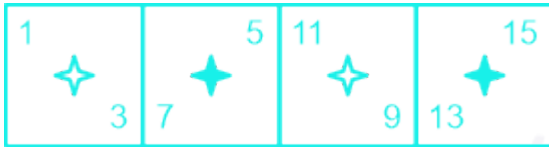
Options :

1.

2.

3.

4.
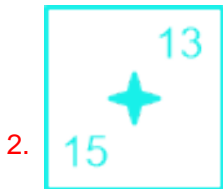
Solution :

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

The logic used here is:

1. The star inside the square is shaded alternatively.

2. The numbers are consecutive odd numbers.

3. The largest odd number is moving in the anticlockwise and the smallest odd number is written opposite to that.

The series of figures is:

Question 21 :
In a certain code language, 'MOBILE' is written as 'PRELOH', and 'SILENT' is written as 'VLOHQW', how will 'PAINTING' be written in that language?

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

Options :
   1. SDLQVKPI
   2. SDLQWLQJ
   3. RCKPWLQJ
   4. RCKPVKPI

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

The logic used here is:

'MOBILE' is written as 'PRELOH'

M + 3 = P

O + 3 = R

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B + 3 = E

I + 3 = L

L + 3 = O

E + 3 = H

'SILENT' is written as 'VLOHQW

S + 3 = V

I + 3 = L

L + 3 = O

E + 3 = H

N + 3 = Q

T + 3 = W

Similarly;

Code for the word PAINTING:

P + 3 = S

A + 3 = D

I + 3 = L

N + 3 = Q

T + 3 = W

I + 3 = L

N + 3 = Q

G + 3 = J

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

Question 22 :
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.) (36, 90, 18) (15, 35, 8)

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. (14, 45, 5)
2. (14, 42, 7)
3. (13, 78, 6)
4. (12, 60, 8)

Solution :

The correct answer is **Option 1** i.e. **(14, 45, 5).**

The logic used here is:

(36, 90, 18)

36 - 18 = 18

18 × 5 = 90

(15, 35, 8)

15 - 8 = 7

7 × 5 = 35

Similarly,

(14, 45, 5)

14 - 5 = 9

9 × 5 = 45

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

Question 23 :

If P + Q means that P is the mother of Q, P ÷ Q means that P is the father of Q, P – Q means that P is the sister of Q. Then which of the following expression shows that A is the maternal grandfather of C?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. B ÷ A + C

A – B ÷ C

3. A + B ÷ C

4. A ÷ B + C

Solution :
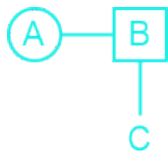
The correct answer is **Option 4** i.e. **A ÷ B + C.**

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: B ÷ A + C

From the above tree, A is the mother of C.

Option 2: A – B ÷ C

From the above tree, A is the paternal aunt of C.

Option 3: A + B ÷ C

From the above tree, A is the paternal grandmother of C.

Option 4: A ÷ B + C

A
|
B
|
C

From the above tree, A is the maternal grandfather of C.

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

Question 24 :

Select the option that is related to the fifth letter cluster in the same way as the second letter cluster is associated with the first letter cluster and the fourth letter cluster is related to the third letter cluster. ROAR: QZNQ:: HEAR: QZDG:: DAMP:?

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

Options :

1. MPAD
2. OLZC
3. BCOA
4. PMAD

Solution :

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

The logic used here is:

ROAR: QZNQ

First, reverse the code.

ROAR = QNZQ

R - 1 = Q

O - 1 = N

A - 1 = Z

R - 1 = Q

HEAR: QZDG

HEAR = GDZQ

H - 1 = G

E - 1 = D

A - 1 = Z

R - 1 = Q

Similarly,

DAMP:?

D - 1 = C

A - 1 = Z

M - 1 = L

P - 1 = O

DAMP = OLZC

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

Question 25 :
Select the figure from among the given options that can replace the question mark (?) in the following series.

Difficulty : Moderate   **Average Time : 62 Seconds**
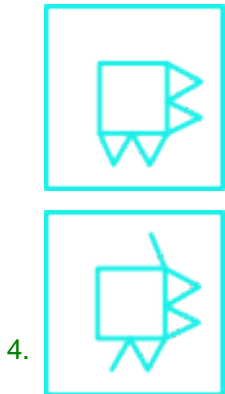
Options :
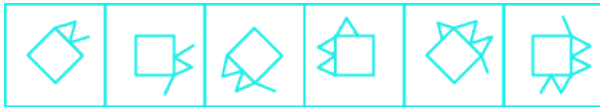
1.

2.

3.

4.

Solution :

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

The logic used here is:

1. The figure inside the square is rotating at 45 degrees in the clockwise direction.

2. Number of lines around the square is increased by one alternatively from both ends.

The series of figures is:

Question 26 :
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) (452, 50, 63) (260, 35, 30)

Difficulty : Moderate   **Average Time : 84 Seconds**

Options :
  1. (330, 30, 45)

  2. (260, 30, 25)

  3. (260, 50, 15)

(230, 15, 45)

Solution :

The correct answer is **Option 3** i.e. **(260, 50, 15).**

The logic used here is:

(452, 50, 63)

50 + 63 = 113

113 × 4 = 452

(260, 35, 30)

35 + 30 = 65

65 × 4 = 260

Similarly,

(260, 50, 15)

50 + 15 = 65

65 × 4 = 260

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

Question 27 :

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 : 45 Seconds**

Options :
1. CGB
2. FYI
3. RKU
4. KDN

Solution :

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

The logic used here is:

1st letter - 7 = 2nd letter

2nd letter + 10 = 3rd letter

Option 1: CGB

C - 7 = V

G + 10 = Q

This does not follow the logic.

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

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. Academic life has (1) _____ demanding for students as a result of different internal and external expectations. Teenagers are especially (2)_____ to academic stress because they go through so many personal and social changes. As a result, designing effective and efficient (3) _____ solutions requires a thorough understanding of the causes and consequences of academic stress. Exams are one of the (4)_____ aspects of anyone's life. Exams are stressful for everyone, whether they are students or adults because everyone wants to perform well and no one wants to fail as to avoid (5) _____ in future.

Question 28 :
Select the most appropriate option to fill in blank number 3.

Difficulty : Moderate   Average Time : 75 Seconds

Options :

1. collateral

2. intervention

3. convention

4. physical

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

The meaning of the given words is:

- **Intervention**: Intervention refers to the act of intervening or taking action to improve a situation or prevent something undesirable from happening.

Collateral: Collateral refers to something that is pledged as security for a loan or debt.
- **Convention**: Convention refers to an established practice or custom that is widely accepted and followed within a particular society or group.
- **Physical**: Physical refers to anything related to the body or the material world, as opposed to mental or emotional aspects.

Thus, the most appropriate filler for the given blank will be **intervention.**

Therefore, the correct sentence would be:

*As a result, designing effective and efficient **intervention** solutions requires a thorough understanding of the causes and consequences of academic stress.*

Question 29 :
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) (12, 42, 7) (13, 52, 8).

Difficulty : Moderate   **Average Time : 87 Seconds**

Options :
1. (8, 7, 43)
2. (7, 12, 6)
3. (9, 26, 8)
4. (9, 18, 4)

Solution :
The correct answer is **Option 4** i.e. **(9, 18, 4).**

The logic used here is:

(12, 42, 7)

12 × 7 = 84

42 × 2 = 84

(13, 52, 8)

13 × 8 = 104

52 × 2 = 104

Similarly,

(9, 18, 4)

9 × 4 = 36

18 × 2 = 36

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

Question 30 :
Select the option that is related to the fifth letter cluster in the same way as the second letter cluster is related to the first letter cluster and the fourth letter cluster is related to the third letter cluster. WINDOW: XFOELX:: TICKET: UFDLBU:: REGION:?

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

Options :

1. SBHFLO

2. SHFKLO

3. BHFDLO

4. HFSOKL

Solution :

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

The logic used here is:

WINDOW: XFOELX

W + 1 = X

I - 3 = F

N + 1 = O

D + 1 = E

O - 3 = L

W + 1 = X

TICKET: UFDLBU

T + 1 = U

I - 3 = F

C + 1 = D

K + 1 = L

E - 3 = B

T + 1 = U

Similarly,

REGION:?

R + 1 = S

E - 3 = B

G + 1 = H

I - 3 = F

O - 3 = L

N + 1 = O

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

Question 31 :

Which of the following letter clusters will replace the question mark (?) in the given series? DAJ, GEL, JIN, MMP, ?

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

Options :

1. PRS

2. QPU

3. QRT

4. PQR

Solution :

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

Given series: DAJ, GEL, JIN, MMP,?

The series follows this pattern:

DAJ, GEL

D + 3 = G

A + 4 = E

J + 2 = L

Similarly;

MMP,?

M + 3 = P

M + 4 = Q

P + 2 = R

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

Question 32 :

Which two signs and two numbers should be interchanged in the following equation to make it correct? 14 × 6 ÷ 12 + 15 9 = 203

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

Options :

1. 15, 6, +, ÷

2. 12, 15, , ×

3. 12, 9, ÷,

4. 14, 6, ÷, ×

Solution :

The correct answer is **Option 1** i.e. **15, 6, +, ÷.**

Given equation: 14 × 6 ÷ 12 + 15 9 = 203

Option 1: 15, 6, +, ÷

After interchanging the expression becomes:

= 14 × 15 + 12 ÷ 6 9 = 203

= 14 × 15 + 2 9

= 210 + 2 - 9

= 203 is equal to 203.

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

Question 33 :
Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s). Statements: Some bulbs are switches. No switch is a vase. All fans are switches. Conclusions: I. Some bulbs being fans is a possibility. II. No fan is a vase. III. All switches are fans. IV. No bulb is a vase.

Difficulty : Moderate   **Average Time : 65 Seconds**
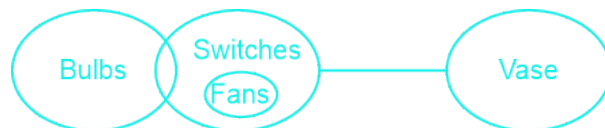
Options :
1. Only Conclusions II and III follow
2. Only Conclusions I and II follow
3. Only Conclusions I, II and IV follow
4. Only Conclusion I follows

Solution :
The correct answer is **Option 2** i.e. **Only Conclusions I and II follow.**

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

Conclusions:

I. Some bulbs being fans is a possibility **True** (As some bulbs are switches and all fans are switches, so, some bulbs being fans is a possibility.)

II. No fan is a vase **True** (As all fans are switches, and no switch is a vase, so, no fan is a base is also true.)

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

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

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

Question 34 :

A # B means 'A is the mother of B'. A @ B means 'A is the son of B'. A & B means 'A is the brother of B'. A % B means 'A is the wife of B'. If W # Q @ T & Y @ M % K, then how is K related to W?

Difficulty : Moderate

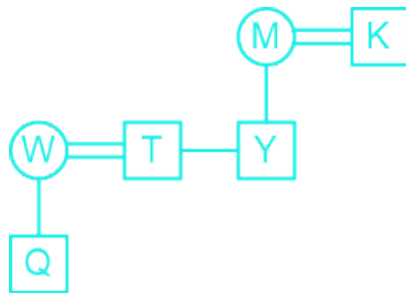**Average Time : 93 Seconds**

Options :

1. Father

2. Father-in-law

3. Brother-in-law

4. Brother

Solution :

The correct answer is **Option 2** i.e. **Father-in-law.**

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, K is the father-in-law of W.

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

Question 35 :
In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements. Statements: I. Some W are F. II. Some R are F. Conclusion: I. Some R are not W. II. No W is R.

Difficulty : Moderate

Average Time : 68 Seconds

Options :

   Only conclusion I follows
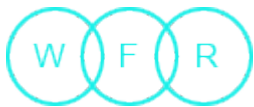
2. Both conclusions I and II follows

3. Only conclusion II follows

4. Neither conclusion follows

Solution :

The correct answer is **Option 4** i.e. **Neither conclusion follows.**

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

Conclusions:

I. Some R are not W **False** (It is possible, but no definite conclusion can be drawn.)

II. No W is R **False** (It is possible, but no definite conclusion can be drawn.)

Hence, **Neither conclusion follows.**

Question 36 :
In a certain code language, 'BREAK' is written as '2182111', and 'COLOUR' is written as '34124518'. How will 'TRING' be written in that language?

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

Options :

1. 20181347

2. 20189147

3. 20183147

4. 20183174

Solution :

The correct answer is **Option 3** i.e. **20183147.**

The logic used here is:

'BREAK' is written as '2182111'

B = 2

R = 18

E = Vowel position of E = 2

A = Vowel position of A = 1

K = 11

'COLOUR' is written as '34124518'

C = 3

O = Vowel position of O = 4

L = 12

O = Vowel position of O = 4

U = Vowel position of U = 5

R = 18

Similarly;

Code for the word TRING:

T = 20

R = 18

I = Vowel position of I = 3

N = 14

G = 7

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

Question 37 :
Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
20 * 2 * 50 * 5 * 115

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

Options :
   1. , ×, =, +

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+, ×, =,

3. +, ×, , =

4. , ×, +, =

Solution :

The correct answer is **Option 3** i.e. **+, ×, , =.**

Given equation: 20 * 2 * 50 * 5 * 115

Option 1: , ×, =, +

After interchanging the expression becomes:

= 20 - 2 × 50 = 5 + 115

= 20 - 100 = 120

= -80 is not equal to 120.

Option 2: +, ×, =,

After interchanging the expression becomes:

= 20 + 2 × 50 = 5 - 115

= 20 + 100 = 5 - 115

= 120 is not equal to -110.

Option 3: +, ×, , =

After interchanging the expression becomes:

= 20 + 2 × 50 - 5 = 115

= 20 + 100 - 5

= 120 - 5

= 115 is equal to 115.

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

Question 38 :
Select the option that represents the correct order of the given words as they would appear in an English dictionary. 1-Expensive 2- Expedition 3- Experience 4- Expel 5- Expenditure

Difficulty : Moderate

Average Time : 70 Seconds

Options :

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

Solution :

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

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

1- Expedition

2- Expel

3- Expenditure

4- Expensive

5- Experience

Question 39 :

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. RMTS, WGAK, BAHC, GUOU, ?

Difficulty : Moderate

Average Time : 43 Seconds

Options :

1. LMNO
2. LOVM
3. LOVQ
4. LMNQ

Solution :

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

Given series: RMTS, WGAK, BAHC, GUOU,?

The series follows this pattern:

RMTS, WGAK

R + 5 = W

M - 6 = G

T + 7 = A

S - 8 = K

Similarly;

GUOU,?

G + 5 = L

U - 6 = O

O + 7 = V

U - 8 = M

So, the next term in the series is **LOVM.**
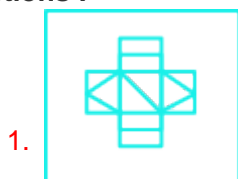
Question 40 :
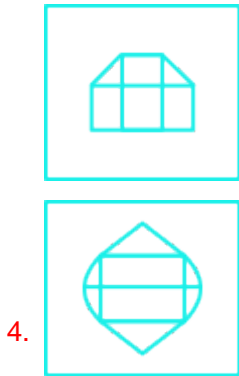Select the option in which the given figure is embedded (rotation is NOT allowed).

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

Options :

1.

2.

3.

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4.

Solution :

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

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

Question 41 :

In the following question, select the missing number from the given series. 1, 22, 44, 67, 91, ?

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

Options :

1. 116

2. 106

3. 115

4. 118

Solution :

The correct answer is **Option 1** i.e. **116.**

Given series: 1, 22, 44, 67, 91, ?

The series follows this pattern:

1 + 21 = 22

22 + 22 = 44

44 + 23 = 67

67 + 24 = 91

91 + 25 = 116

So, the next term in the series is **116.**

Question 42 :
In the following question, four number pairs are given. In each pair, the number on the left side of (–) is related to the number on the right side of (–) with some Logic/Rule/Relation. Three pairs are similar on the basis of the same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g.13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

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

Options :

   1. 7 – 71

   2. 11 – 111

   3. 8 – 81

   4. 12 – 167

Solution :
The correct answer is **Option 4** i.e. **12 – 167.**

The logic used here is:

1st number × 10 = 2nd number

2nd number + 1 = 3rd number

Option 1: 7 – 71

7 × 10 = 70

70 + 1 = 71

This follows the logic.

Option 2: 11 – 111

11 × 10 = 110

110 + 1 = 111

This follows the logic.

Option 3: 8 – 81

8 × 10 = 80

80 + 1 = 81

This follows the logic.

Option 4: 12 – 167

12 × 10 = 120

120 + 1 = 121

This does not follow the logic.

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

Question 43 :
A car starts from point A towards point B, travelling at the speed of 20 km/h. (1$\frac{1}{2}$) hours later another car starts from point A and travelling at the speed of 30 km h and reaches (2$\frac{1}{2}$) hours before the first car. Find the distance between A and B.

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

Options :
1. 300 km
2. 240 km
3. 260 km
4. 280 km

Solution :
The correct answer is **Option 2** i.e. **240 km.**

Formula used:

Distance = [(S1 × S2)/(S1 - S2)] × total time   ---- (1)

Calculations:

S1 = 20 and S2 = 30

Total time = 2.5(early) + 1.5(late) = 4 h

Using equation (1), we get

 Distance = [(30 × 20)/10] × 4

 Distance = 240 km

Question 44 :
The difference between a discount of 25% and two successive discounts of 15% and 10% on a certain bill was Rs.25. Find the amount of the bill.

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

Options :

1. Rs.3,333.33

2. Rs.2,500

3. Rs.833.33

4. Rs.1,666.67

Solution :
The correct answer is **Option 4** i.e. **Rs.1,666.67.**

Concept used:

One single discount of two successive discount of x and y = x + y - xy/100

Calculations:

Let the bill be 100x.

Equivalent discount of 15% and 10% = 15 + 10 - 150/100

 25 - 1.5 = 23.5%

Discount = 23.5x

Single discount of 25% gives a discount of 25x

According to the question;

25x - 23.5x = 25

1.5x = 25

x = 16.6666

Required amount of bill = 100x

100 × 16.666 = 1666.67

Question 45 :

A trader has a weighing balance that shows 1300 g for a kg. He further marks up his cost price by 15%. The net profit percentage is:

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

Options :

1. 48.5%

2. 49.5%

3. 50%

4. 45%

Solution :

The correct answer is **Option 2** i.e. **49.5%.**

Concept used:

Selling price = CP × (Increase marked up %) × fake weight/true weight   ----- (1)

Calculations:

Let the CP be 100.

Increased marked up% = 15%

Fake weight = 1300 g

True weight = 1000 g

Using equation (1), we get

Selling price = 100 × 115% × 1300/1000

Selling price = 149.5

Profit % = (49.5/100) × 100 = 49.5%

Question 46 :

The nearest number which is greater to 87501, and is completely divisible by 765 is :

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

Options :

1. 88975

2. 87975

3. 87966

4. 87775

Solution :

The correct answer is **Option 2** i.e. **87975.**

Calculations:

When we divide 87501 by 765 we get 114 as quotient

Now the number greater 87501 which is divided by 765 will have 115 as its quotient

The nearest greater number than 87501 = 115 × 765 = 87975.

Question 47 :

Simplify : $(\frac{cosA}{1+tanA}-\frac{sinA}{1+cotA})$.

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

Options :

1. tanA

2. cosA - sinA

3. cosA. sinA

4. cosA + sinA

Solution :

The correct answer is **Option 2** i.e. **cosA - sinA.**

Formula used:

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

Calculations:

cos A/(1 + sin A/cos A) - sin A/(1 + cos A/sin A)

$\cos^2 A$/(cos A + sin A) - $\sin^2 A$/(cos A + sin A)

$(\cos^2 A - \sin^2 A)$/(cos A + sin A)

(cos A + sin A)(cos A - sin A)/(cos A + sin A)

cos A - sin A

Question 48 :
In triangle ABC, the bisector of angle BAC cuts the side BC at D. If AB = 10 cm, and AC = 14 cm, then what is BD : BC ?

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

Options :

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

Solution :
The correct answer is **Option 2** i.e. **5 : 7.**

Concept used:

Angle bisector theorem: The angle bisector of a triangle divides the opposite side into two parts proportional to the other two sides of the triangle

Calculations:

According to the concept

AB/AC = BD/CD

BD/CD = 10/14

BD : CD = 5 : 7

Question 49 :

The table given below shows the number of people in different states. States Number of People A 174 B 200 C 144 D 195 E 280 What is the ratio of number of people in state C to the number of people in state E?

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

Options :

1. 31 : 17

2. 35 : 18

3. 18 : 35

4. 17 : 29

Solution :

The correct answer is **Option 3** i.e. **18 : 35.**

Calculations:

Number of people in state C = 144

Number of people in state E = 280

Required ratio = 144 : 280 = 18 : 35

Question 50 :

Rs.5,000 is divided into two parts such that if one part is invested at 4% and the other at 5%, then the whole annual interest from both the sums is Rs.223. How much wasinvested at 4%?

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

Options :

1. Rs.2,600

2. Rs.2,700

3. Rs.2,400

4. Rs.2,300

Solution :

The correct answer is **Option 2** i.e. **Rs.2,700.**

Formula used:

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

We have SI = simple interest, P = principal, R = rate and T = time

Calculations:

Let the amount invested on 4% = x

Amount invested on 5% = 5000 - x

Using equation (1), we get

(x × 4 × 1)/100 + ((5000 - x) × 5)/100 = 223

x/24 + (5000 - x)/20 = 223

x = 25000 - 22300

x = 2700

Question 51 :
The table given below shows the number of truck sold by six companies Companies Truck J 40 K 60 L 80 M 110 N 120 O 80 .Number of trucks sold by L are what percent of number of trucks sold by J?

Difficulty : Moderate   Average Time : 59 Seconds

Options :

1. 100%

2. 250%

3. 200%

4. 150%

Solution :
The correct answer is **Option 3** i.e. **200%.**

Calculations:

Number of trucks sold by L = 80

Number of trucks sold by J = 40

Required percentage = (80/40) × 100 = 200%

Question 52 :
If the volume of a sphere is 24,416.64 cm3, find its surface area (take =3.14) correct to two places of decimal.

Difficulty : Moderate

Average Time : 39 Seconds

Options :

1. 3069.55 cm^3
2. 4069.44 cm^3
3. 5069.66 cm^3
4. 6069.67 cm^3

Solution :

The correct answer is **Option 2** i.e. **4069.44 cm^3.**

Formula used:

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

Surface area of sphere = $4 \times \pi \times r^2$ ---- (2)

Calculations:

Using equation (1),

24,416.64 = $4/3 \times 3.14 \times r^3$

r^3 = 5832

r = 18 cm

Using equation (2),

Total surface area of sphere = $4 \times 3.14 \times 18 \times 18$ = 4069.44 cm^3

Question 53 :

$(\{\{1\} \text{ over } 1+\cos(90°- \text{heta})\}+\{\{1\} \text{ over } 1-\cos(90°- \text{heta})\}=)$_____.

Difficulty : Moderate

Average Time : 60 Seconds

Options :

1. 2sec^2

2. 1

3. 0

$2\tan^2$

Solution :

The correct answer is **Option 1** i.e. $2\sec^2$.

Formula used:

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

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

Calculations:

$1/(1 + \cos(90 -)) + 1/(1 - \cos(90 -))$

which can be written as

$1/(1 + \sin) + 1/(1 - \sin)$

$[1 - \sin + 1 + \sin]/(1 - \sin^2)$

$2/\cos^2$

$2\sec^2$

Question 54 :
If $(4a+\frac{5}{a}+5)=14$, what is the value of $(16a^2+\frac{25}{a^2})$?

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

Options :

1. 25
2. 36
3. 41
4. 40

Solution :

The correct answer is **Option 3** i.e. **41.**

Formula used:

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

Calculations:

4a + 5/a = 14 - 5

Using equation (1), we get

$16a^2 + 25/a^2 + 2 \times 4 \times 5 = 81$

$16a^2 + 25/a^2 = 81 - 40$

$16a^2 + 25/a^2 = 41$

Question 55 :

Study the following table and answer the question that follows. A school 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 RESULTS 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 percentage of students of section C Passed in Science but failed in Mathematics?

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

Options :

1. 8.70%

2. 9.20%

3. 9.85%

4. 10.30%

Solution :

The correct answer is **Option 1** i.e. **8.70%.**

Calculations:

Number of students in section C = 18 + 10 + 8 + 56 = 92

Number of students in section C who passed in science but failed in mathematics = 8

Required percentage = (8/92) × 100 = 8.70%

Question 56 :

Ruchi, Khushi and Teju can do a piece of work in 30, 40 and 60 days respectively. In how many days can Ruchi do the work, if she is assisted by both Khushi and Teju on every third day?

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

Options :

$\frac{550}{12}$ days

2. $\frac{85}{4}$ days

3. $\frac{71}{2}$ days

4. $\frac{360}{17}$ days

Solution :

The correct answer is **Option 2** i.e. $\frac{85}{4}$ **days**

Calculations:

Total work (LCM of 30, 40 and 60) = 240 units

Efficiency of Ruchi = 240/30 = 8 units

Efficiency of khushi = 240/40 = 6 units

Efficiency of teju = 240/60 = 4 units

Total efficiency = 18 units

Work done in 3 days = 8 + 8 + 18 = 34 units

Work done in 21 days = 238 units

Now the 2 unit work will be done = 2/8 days

Total time taken = 21 + 1/4 = 85/4 days

Question 57 :
If the diameter of a sphere is 3.5 cm, then what is the total surface area of the sphere?

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

Options :

1. 45.75 cm^2

2. 42.6 cm^2

3. 38.5 cm^2

4. 34.25 cm^2

Solution :

The correct answer is **Option 3** i.e. **38.5 cm^2**

Given:

Diameter = 3.5 cm

Radius = 3.5/2 = 1.75 cm

Formula used:

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

Calculations:

Using equation (1), we get

Total surface area = 4 × (22/7) × (1.75)^2

38.5 cm^2

Question 58 :

Ram loses (12{{1} over 2}) % of his money and after spending 75% of the remainder, is left with Rs. 630. How much money did Ram have intially?

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

Options :

1. Rs.2,080

2. Rs.2,880

3. Rs.2,205

4. Rs.2,808

Solution :

The correct answer is **Option 2** i.e. **Rs.2,880.**

Calculations:

Let the money ram had initially be x.

According to the question;

x × ((100 - 12.5)/100) × (100 - 75)/100 = 630

x = 90 × 4 × 8 = 2880

Question 59 :

If $\left(X - \frac{1}{X} = 13\right)$, what will be the value of $\left(X^4 - \frac{1}{X^4} = ?\right)$

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

Options :

1. 28561
2. 29243
3. 27887
4. 29239

Solution :

The correct answer is **Option 4** i.e. **29239.**

Formula used:

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

Calculations:

Using equation (1), we get

$(x - 1/x)^2 = x^2 + 1/x^2 - 2$

$13^2 = x^2 + 1/x^2 - 2$

$x^2 + 1/x^2 = 171$

Again, $(x^2 + 1/x^2)^2 = x^4 + 1/x^4 + 2$

$171^2 = x^4 + 1/x^4 + 2$

$x^4 + 1/x^4 = 29241 - 2$

$x^4 + 1/x^4 = 29239$

Question 60 :

Study the given chart and answer the question that follows. The chart shows the quantities of machines (M1, M2, M3) available in different stores (S1, S2, S3, S4). Which stores have more number of M2 machines than the average number of M2 machines per store?

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

Options :

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   S2 and S4

  2. S1 and S3

  3. S2 and S3

  4. S1 and S4

Solution :

The correct answer is **Option 4** i.e. **S1 and S4.**

Calculations:

Average number of M2 machines = 12 + 8 + 8 + 14 = 42/4 =10.5

S1 and S4 has more 12 and 14 machines which are more than 10.5 machines.

Question 61 :
If a ∶ b = c ∶ d, then which of the following ratio is equal to a ∶ c ?

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

Options :

  1. a ∶ d

  2. b ∶ c

  3. a + d ∶ b + c

  4. a + b ∶ c + d

Solution :

The correct answer is **Option 4** i.e. **a + b ∶ c + d.**

Calculations:

 a ∶ b = c ∶ d

Can be written as

 a/b = c/d or   ---- (1)

 a/c = b/d

Adding 1 on both sides in equation (1) we get

 a/b + 1 = c/d + 1

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$(a + b)/b = (c + d)/d$

$(a + b)/(c + d) = b/d$

We know that, $a/c = b/d$

Hence, $a/c = (a + b) : (c + d)$

Question 62 :
The factors of $X^4 + X^2 + 25$ are:

Difficulty : Moderate   Average Time : 57 Seconds

Options :

1. $(X^2 + 3X - 5)(X^2 - 3X + 5)$

2. $(X^2 + 3X + 5)(X^2 - 3X + 5)$

3. $(X^2 - 3X + 5)(X^2 - 3X + 5)$

4. $(X^2 + 3X + 5)(X^2 + 3X + 5)$

Solution :
The correct answer is **Option 2** i.e. **$(X^2 + 3X + 5)(X^2 - 3X + 5)$.**

Formula used:

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

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

Calculation:

$x^4 + x^2 + 25$

It can be written as

$(x^2)^2 + 2 \times x^2 \times 5 + (5)^2 - (3x)^2$

$(x^2 + 5)^2 - (3x)^2$

Using equation (2), we get

$(x^2 + 3x + 5)(x^2 + 3x - 5)$

Question 63 :
The area of a sector of a circle is $66 cm^2$ and the angle of the sector is 60°. Find the radius of the circle.

Difficulty : Moderate

Average Time : 81 Seconds

Options :

1. $5\sqrt{15} cm$
2. $6\sqrt{14} cm$
3. $7\sqrt{19} cm$
4. $3\sqrt{14} cm$

Solution :

The correct answer is **Option 4** i.e. $3\sqrt{14} cm$

Formula used:

Area of the sector = (Angle of the sector/360) × r^2 ----- (1)

Calculations:

Let r be the radius of the circle.

Using equation (1), we get

66 = (60/360) × (22/7) × r^2

r^2 = 18 × 7

r = 314 cm

Question 64 :

Calculate the HCF of ($\frac{12}{5}$, $\frac{14}{15}$) and($\frac{16}{17}$).

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. $\frac{4}{255}$
2. $\frac{3}{255}$
3. $\frac{2}{255}$
4. $\frac{1}{255}$

Solution :

The correct answer is **Option 3** i.e. $\frac{2}{255}$.

Concept used:

To calculate the HCF of fractions = HCF of numerator/LCM of denominator

Calculations:

HCF of $\frac{12}{5}, \frac{14}{15}$ and $\frac{16}{17}$ = (HCF of 12, 14 and 16)/(LCM of 5, 15 and 17)

2/255

Question 65 :

If (cos q + sin q) = 31/25, then what will be the value of cos2 q?

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

Options :

1. 522/625

2. 512/625

3. 513/625

4. 527/625

Solution :

The correct answer is **Option 4** i.e. **527/625.**

Concept used:

$Sin^2 + Cos^2 = 1$

Calculation:

(cos q + sin q) = 31/25   -----(1)

$(cos\ q + sin\ q)^2 = (31/25)^2$

$cos^2 q + sin^2 q + 2cosqsinq = 961/625$

1 + 2cosqsinq = 961/625

2cosqsinq = 961/625 - 1

$2\cos q \sin q = 336/625$

Now, $(\cos q - \sin q)^2 = \cos^2 q + \sin^2 q - 2\cos q \sin q$

$(\cos q - \sin q)^2 = 1 - 336/625$

$(\cos q - \sin q)^2 = 289/625$

$(\cos q - \sin q) = 17/25$ \qquad ---- (2)

From eq (i) and eq (ii) we get,

$2\cos q = 48/25$

$\cos q = 24/25$

$\cos^2 q = (24/25)^2$

$576/625$

Question 66 :

The average marks of 60 students in a class are 62. The average marks of boys and girls in that subject are 60 and 65, respectively. The number of boys in the class is:

Difficulty : Moderate   **Average Time : 78 Seconds**

Options :

1. 36

2. 25

3. 41

4. 31

Solution :

The correct answer is **Option 1** i.e. **36.**

Calculations:

Let the number of boys be x and girls be y.

According to the question;

$(x + y) \times 62 = 60x + 65y$

$62x + 62y = 60x + 65y$

$x/y = 3/2$

Let the ratio be $3n$ and $2n$

Total number of boys and girls = 60

$3n + 2n = 60$

$5n = 60$

$n = 12$

Total number of boys = $3 \times 12 = 36$

Question 67 :
Select the correct option with respect to the given statement. Two tangents are drawn at the end of the diameter of a circle.

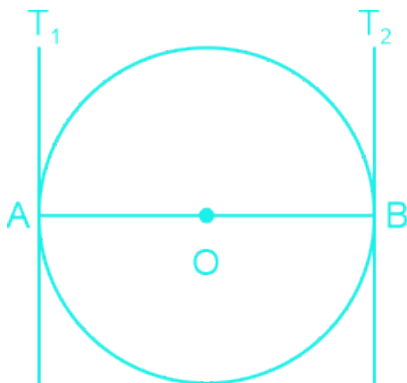**Difficulty : Moderate**   **Average Time : 54 Seconds**

Options :
1. They intersect each other.

2. They pass through origin.

3. They are parallel to each other

4. They are perpendicular to each other.

Solution :
The correct answer is **Option 3** i.e. **They are parallel to each other.**

Calculations:

In the figure given above,

AB = diameter and T_1 and T_2 are the tangents

Hence, we can see that both tangents are parallel to each other.

Question 68 :

Any natural mass of mineral matter that makes up the earth's crust is _____.

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

Options :

1. Garbage

2. Rock

3. Stone

4. Fossil

Solution :

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

Rock	A rock is any naturally occurring mass of mineral materials that is part of the crust of the earth. Rocks come in a variety of colors, sizes, and textures. Igneous rocks, sedimentary rocks, and metamorphic rocks are the three main categories of rocks.
Garbage	Unwanted or useless items are considered waste. Waste is anything that is thrown away after its primary use or that is useless, broken, or ineffective.
Stone	The hard compact nonmetallic material of which rocks are made
Fossil	The remains of dead organisms are preserved in fossils. This is the earth's former inhabitants' impression. Animal bones, shells, imprints in stone, cast molds, and other objects are examples of fossils.

Question 69 :

Rajashree Shirke was given which of the following prestigious dance awards of 2013 for her excellence in Kathak?

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

Options :

Sangeet Natak Academy Award

2. Padma Shri

3. Kalidas Samman

4. National Film Award

Solution :

The correct answer is **Option 1.** i.e. **Sangeet Natak Academy Award.**

The 2013 Sangeet Natak Academy Awards went to Rajashree Shirke for her outstanding performance in Kathak.

> - She performs Kathak and Bharatanatyam. The Lasya Centre of Dance Education and Research, which offers a diploma in Kathak and Bharatanatyam, is led by Rajashree.'
> - Madan Samhara': A study of the Avadhi language of Tulsidas 'Ramcharitra Manas' is one of her academic projects.

Question 70 :

If we deduct depreciation from GNP the measure of aggregate income that we obtain is called _____.

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

Options :

1. Gross Domestic Product at market prices

2. Gross Domestic Product

3. Net National Product

4. Personal income

Solution :

The correct answer is **Option 3.** i.e. **Net National Product.**

Net National Product (NNP): NNP is calculated by deducting depreciation value (i.e., consumption of capital stock) from GNP. The total output that is made available to consumers in an economy is determined by NNP. The calculation is done annually. The equation for NNP is:

NNP = MVFG + MVFS Depreciation

where:

Market Value of Final Goods, or MVFG

MVFS is short for "market value of finished services."

â€‹

Gross national product (GNP) estimates the total worth of all finished goods and services produced over a specific period using resources that belong to a nation's citizens. Personal consumption expenditures, private domestic investment, government spending, net exports, and any money made by locals from abroad investments are typically added up, and then foreign residents' income is subtracted.

Question 71 :

The chemical formula of borax is _____.

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

Options :

1. $Na_2B_5O_7 \cdot 10H_2O$

2. $Na_2B_4O_7 \cdot 10H_2O$

3. $Na_2B_4O_7 \cdot 5H_2O$

4. $Na_2B_4O_7 \cdot 12H_2O$

Solution :

The correct answer is **Option 2.** i.e. **$Na_2B_4O_7 \cdot 10H_2O$.**

Borax is a salt with the chemical formula, **$Na_2B_4O_7 \cdot 10H_2O$** which can be either hydrated or anhydrous. It is a crystalline solid that has no color and dissolves in water to form a simple solution.

IUPAC ID: Sodium tetraborate decahydrate

Molar mass: 381.37 g/mol

This substance has numerous significant applications in numerous different industries. For instance, borax is a common ingredient in detergents and cosmetics.

Question 72 :

OYO partnered with the Jammu and Kashmir administration to launch a rural tourism initiative. What this initiative iscalled?

Difficulty : Moderate

Average Time : 81 Seconds

Options :

1. Weaving a Better Future

2. Crown of Incredible India

3. Shared Planet

4. United India

Solution :

The correct answer is **Option 2.** i.e. **Crown of Incredible India.**

- The Jammu and Kashmir government has joined up with OYO Group, the world's top travel technology company, to introduce the "C**rown of Incredible India"** rural tourism project throughout the Union Territory (UT). As part of the effort, OYO will also collaborate with the Center's "Mission Youth" program to launch homestays in 75 communities, fostering self-employment options and entrepreneurship.
- The J&K government's innovative program "Mission Youth" was created to serve as a conduit for the ambitions and concerns of J&K's young. By empowering local communities, young people, and women, this new project will realize "Aatmanirbhar Bharat's" vision.

Question 73 :

Players that stop dribbling in handball have to pass or shot within:

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. 5 second

2. 30 second

3. 10 second

4. 3 second

Solution :

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

> This principle is also known as the **"three-step rule."** Players can pass, dribble (as in basketball), or shoot the ball after receiving it.
>
> - Players are permitted to take up to three steps after receiving the ball without dribbling. A player may advance three steps if they dribble.
> - After stopping their dribble, players have three seconds to pass or shoot. Thereafter, they may proceed in three more steps.
> - The goal line (within 6 meters of the goal) is off-limits to all players save the opposing keeper. Outside of this line, goalkeepers are permitted.

Question 74 :

Which of the following sequence is correct with respect to the Delhi Dynasties?

Difficulty : Moderate   Average Time : 65 Seconds

Options :

1. Khalji dynasty, Lodi dynasty, Sayyid dynasty

2. Tughluq dynasty, Khalji dynasty, Sayyid dynasty

3. Early Turkish Rulers, Rajput dynasties, Khalji dynasty

4. Rajput dynasties, Khalji dynasty, Tughluq dynasty

Solution :

The correct answer is **Option 4.** i.e. **Rajput dynasty, Khalji dynasty, Tughluq dynasty.**

> - Mamluk dynasty: 1206-1290
> - Khalji dynasty: 1290-1320
> - Tughlaq dynasty: 1320-1414
> - Sayyid dynasty: 1414-1451
> - Lodi dynasty: 1451-1526

- The Pala, Pratihara, Paramara, Chauhan, Gahrawal, Guhila, Sisodia and Solanki families are among the significant

Rajput dynasties.
- The Sisodias are Suryavanshi Rajputs claiming descent from Lord Rama through his son Lava. They were known as the Ranas ofMewar which was a princely state under the British Raj. They established themselves as rulers of Mewar in 734 AD, ruling from the fortress of Chittorgarh. They trace their descent from Bappa Rawal (ruled 734-753), the eighth ruler of the Guhilot Dynasty.

Question 75 :
There are _____ main types of cell division.

Difficulty : Moderate   Average Time : 71 Seconds

Options :

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

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

Cells divide:

- The act of creating new cells by dividing already-existing cells is known as cell division.
- Mitosis and meiosis are the two distinct processes of cell division.

Mitosis:

- All living things divide their cells primarily by mitosis, which is how new body cells are created.
- Asexual reproduction, tissue repair, plant development, and other processes are examples of mitosis.

Meiosis:

- Meiosis is a cell division mechanism that is primarily employed in sexual reproduction to produce egg and sperm cells.

Question 76 :
The first session of the Indian National Congress was held at _____.

Difficulty : Moderate   Average Time : 57 Seconds

Options :

1. Bombay
2. Madras
3. Calcutta
4. Surat

Solution :

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

- On 28 December 1885, 72 social reformers, journalists, and lawyers congregated for the first session of the Indian National Congress at **Gokuldas Tejpal Sanskrit College, Bombay.**
- Womesh Chandra Banerjee, a well-known Bengali attorney, served as the meeting's president. 72 participants from all around India attended the summit.
- Due to a cholera outbreak in Poona, the Congress was moved from Poona to Bombay.

Question 77 :

An electric current is expressed by a unit called _____.

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

Options :

1. meter
2. ampere
3. watt
4. joule

Solution :

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

Electric current	A common unit of electric current is the **ampere**, which is defined as a flow of one coulomb of charge per second, or 6.2×10^{18} electrons per second.
Watt	SI is the standard unit of power (energy per unit time), the equivalent of one joule per second.
Meter	The meter, symbol m, is the SI unit of **length**.
Joule	The SI unit of work is the joule (J). A body can be moved by exerting 1 Newton of force over a distance of 1 meter using 1 Joule of energy. 1 J = 1 N × 1 m.

Question 78 :

The chemical formula of magnesium oxide is _____.

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

Options :
1. $MgCO^3$
2. MgO^2
3. MgO
4. $Mg(OH)^2$

Solution :

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

Magnesium oxide, also referred to as "magnesia," is an ionic compound created when an electron is transferred from a metal (magnesium) to a non-metal (oxygen). The minerals dolomite, silicate, and magnesite are rich sources of magnesium oxide (MgO). Saltwater also contains magnesium oxide, which is produced mostly by calcining magnesite or magnesium carbonate (MgCO3).

Calcination of Magnesite to Produce Magnesium Oxide-The most common procedure is calcining magnesium carbonate (MgCO3) to produce magnesium oxide. Magnesite is calcined in a variable-temperature kiln, releasing carbon dioxide gas as it breaks down into magnesium oxide.

MgO + CO2 = MgCO3

Question 79 :

The Constitution forbids the employment of children below the age of _____ years in dangerous jobs like factories and mines.

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. 15
2. 14
3. 16
4. 18

Solution :

The correct answer is **Option 2.** i.e. **14.**

No child below the age of **fourteen years** shall be employed in work in any factory or mine or engaged in any other hazardous employment.

- **Article 24** prohibits the employment of children below the age of 14 years in any factory, mine, or other hazardous activities like heavy industry, construction work, or railway.
- **The Child Labour (Prohibition and Regulation) Amendment Act, of 2016,** amended the Child Labour (Prohibition and Regulation) Act, of 1986.
  The Amendment Act prohibits the employment of children below 14 years in **all** occupations and processes. The Amendment Act prohibits the employment of **adolescents** (14 to 18 years of age) in certain hazardous occupations and processes.
- **Article 21A**: Right to Education The State shall provide free and compulsory education to all children of the age of 6 to 14 years in such manner as the State, by law, may determine.
- **Factories Act, of 1948** prohibits the employment of a child who has not completed 14 years.

Question 80 :

Which of the following is not a natural fiber?

Difficulty : Moderate

Average Time : 78 Seconds

Options :

1. Linen

Cotton

3. Rayon

4. Jute

Solution :

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

Rayon is a **semi-synthetic fiber** created from regenerated cellulose found in natural sources like wood and associated agricultural goods.

- Any plant (including bamboo, soy, cotton, etc.) can be used to make rayon, which is typically manufactured from eucalyptus trees. Plant cellulose undergoes an extensive chemical, energy, and water-intensive process to create the fiber.

Additional Information-

- The fibers that come from plants, animals, or mineral sources are known as natural fibers. Wool, silk, and cotton are a few examples. Depending on their source, such as plants or animals, natural fibers can once more be separated into categories.
- Plant fibers include seed hairs, like those found in cotton, stem (or bast) fibers, like those found in flax and hemp, leaf fibers, like sisal, and husk fibers, like those found in coconut. Wool, hair, and secretions from animals, such as silk, are examples of animal fibers.

Question 81 :

Which of the following is celebrated as the New Year in Tamil Nadu?

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

Options :

1. Pongal

2. Puthandu

3. Ugadi

4. Onam

Solution :

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

The Tamil New Year, Puthandu or Varsha Pirappu, is very important to the neighborhood. Popular legend holds that on this auspicious day, Lord Brahma began the creation of the universe, and Lord Indra descended to earth to ensure tranquilly. As a result, the day is quite significant. It falls on or about 14 April every year on the Gregorian calendar.

Additional Information-

Pongal	It is an ancient festival of South India, particularly among the Tamils. It is a harvest festival that is celebrated for four-day-long in Tamil Nadu in the **month of January-February** (Thai) during the **solar equinox** after harvesting crops like **rice, sugarcane, turmeric,** etc
Ugadi	The southern states of Karnataka, Telangana, and Andhra Pradesh celebrate Ugadi, sometimes known as "Yugadi," which is a significant event. It is recognized as the start of a new year by the Hindu calendar.
Onam	Onam is **an ancient Hindu festival of Kerala that celebrates rice harvest.**

Question 82 :

In the early eleventh century, the Chola king Rajendra I built a Shiva temple and filled it with a Sun-pedestal seized from the _____.

Difficulty : Moderate　　　　　　　　　　**Average Time : 91 Seconds**

Options :

1. Palas

2. Vakatakas

3. Chalukyas

4. Kalingas

Solution :

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

In the 11th century when the Chola king Rajendra I built a Shiva temple in his capital he filled it with prized statues seized **from defeated rulers.**

> Pulakeshin I founded the Chalukya dynasty in the year 543. Vatapi (modern Badami in the Bagalkot district of Karnataka) was taken under the dominion of Pulakeshin I, who declared it his capital. "Chalukyas of Badami" refers to Pulakeshin I and his lineage.

Question 83 :

Which of the following offices was NOT held by the poet Harishena?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Sandhi-vigrahika
2. Maha-danda-nayaka
3. Nagara-shreshthi
4. Kumar-amatya

Solution :

The correct answer is **Option 3.** i.e. **Nagara-shreshthi**

- **Nagara-shreshthi:** It was the term used for the chief banker or merchant of the city.
- **Sandhi-Vigrahika**: Lord of War and Peace. The title Sandhi-Vigrahika meant Minister of War and Peace during Samudragupta's rule.
- **Maha-danda-nayaka :** Maha Dandanayaka served as the chief justice. He was in charge of preserving law and order. As his name implies, he handed down sanctions in court cases
- **Kumar-amatya: The meaning** of kumar-amatya is **important to the minister**, for example, Harishena was a kumar-amatya. In the Gupta period, the highest officer in the district was known as the kumar-amatya.

Question 84 :

_____ is found in association with rocks composed of calcium carbonates.

Difficulty : Moderate

Average Time : 62 Seconds

Options :

   Limestone

2. Gold

3. Iron

4. Diamond

Solution :

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

1. Calcium carbonate or calcium and magnesium carbonate-containing rocks are frequently found near limestone.
2. The chemical compound calcium carbonate, with the formula $CaCO_3$, is made up of three primary elements carbon, oxygen, and calcium.
3. The calcium cycle includes dolomite, calcite, and aragonite as important elements of calcium carbonate. Limestone, chalk, marble, travertine, tufa, and other types of rock are formed by the carbonate minerals.

Question 85 :

Fill in the blank with the correct collocation. Motorists committing this infraction are _____ fined.

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

Options :

1. wholly

2. hardly

3. slowly

4. heavily

Solution :

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

- "Heavily fined" is a common collocation in English that means to be charged a large or significant amount of money as a penalty for committing an offense or breaking a law.
- "Wholly" means entirely or completely, "hardly" means barely or scarcely, and "slowly" means at a slow pace.
- In the given sentence, the speaker is stating that motorists who commit a particular infraction are charged a significant amount of money as a fine.
- The other options, "wholly fined", "hardly fined", and "slowly fined" do not make sense in the context of the sentence.
- None of these words are commonly used in combination with "fined" in English.
- The correct collocation to fill in the blank in the given sentence is "heavily fined".

Thus, the correct answer sentence is:

*Motorists committing this infraction are **heavily** fined.*

Question 86 :
Select the most appropriate meaning of the given idiom. Fair and square

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

Options :
  1. Honestly

  2. Fair-skinned

  3. Being vague

  4. Good looking

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

  - The meaning of the given idiom, **Fair and square** is '**honestly and straightforwardly**.

*'Thus, the most appropriate choice among the given idiom is **honestly.***

Question 87 :
Select the most appropriate option to substitute the underlined segment in the given sentence. I used to swim across the river when I was young.

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

Options :
  1. will swim across

  2. was swimming across

  3. could swim across

  4. can swim across

Solution :
The correct answer is **Option 3** i.e. **could swim across.**

  - The sentence expresses a past habit or routine of the speaker, stating that they used to swim across the river when they were young.

The use of the past tense "used to" indicates a habitual or repeated action in the past, while the phrase "across the river" provides a detail about how the action was performed.

- Therefore, the underlined segment "swim across the river" is appropriate and conveys the intended meaning of the sentence.

Thus, the correct sentence would be:

I **could swim across** the river when I was young.

Question 88 :

Select the option that contains a grammatical error in the underlined portion. I have never played any game of side this track during the season.

Difficulty : Moderate   **Average Time : 69 Seconds**

Options :

1. I have never played any game off side this track <u>during the season</u>.

2. I have never played any game <u>of side this track</u> during the season.

3. <u>I have never played</u> any game off side this track during the season.

4. have never played <u>any game</u> off side this track during the season.

Solution :

The correct answer is **Option 2** i.e. **I have never played any game <u>of side this track</u> during the season.**

- The error in the original sentence is the use of the preposition "of" instead of "on".
- The correct preposition to use in this context is "on", as it refers to the location of the track and indicates that the games were played on one side of the track.
- The corrected sentence uses the correct preposition "on" and also includes the article "the" before "season", as it refers to a specific season.

The correct sentence would be:

I have never played any game **on this side of** the track during the season.

Question 89 :

Select the most appropriate option to fill in the blank. We decided to _____ as we were missing him a lot.

Difficulty : Moderate

Average Time : 83 Seconds

Options :

1. give a visit

2. take a visit

3. bring in a visit

4. pay him a visit

Solution :

The correct answer is **Option 4** i.e. **pay him a visit.**

- "Pay him a visit" is an idiomatic expression that means to go and visit someone, especially if they are ill or need support.
- In the given sentence, the speaker is expressing their desire to visit someone they are missing, which indicates that they want to spend time with that person.
- The other options "give a visit", "take a visit", and "bring in a visit" are not commonly used idiomatic expressions to describe visiting someone.

Thus, the correct sentence would be:

*We decided to **pay him a visit** as we were missing him a lot.*

Question 90 :
Select the option that can be used as a one-word substitute for the given group of words. One who mediates in a deal or complex situation

Difficulty : Moderate

Average Time : 69 Seconds

Options :

1. Equaliser

2. Solicitor

3. Pacifier

4. Negotiator

Solution :

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

The meaning of the given words is:

Negotiator: A negotiator is a person who engages in discussions or dialogue with others to reach a compromise or agreement on a particular issue or topic.

- **Equaliser**: An equaliser is a person or thing that makes things equal or balances out differences between two or more parties.
- **Solicitor**: A solicitor is a legal professional who provides legal advice and guidance to clients and represents them in legal matters.
- **Pacifier**: A pacifier is an object that is used to calm or soothe a baby or young child.

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

Question 91 :

Select the most appropriate ANTONYM of the given word. Ambition

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

Options :

1. Intent

2. Anxiety

3. Object

4. Laziness

Solution :

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

The meaning of the given words is:

- **Ambition**: Ambition refers to a strong desire or goal to achieve something that requires effort and dedication.
- **Laziness**: Laziness refers to the unwillingness or reluctance to do work or make an effort.
- **Intent**: Intent refers to a person's purpose or objective in doing something.
- **Anxiety**: Anxiety refers to a feeling of unease, nervousness, or worry.
- **Object**: An object is a tangible or physical item that can be seen, touched, or perceived.

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

Question 92 :

Select the most appropriate synonym of the word 'stagnant' from the following sentence. Reeta was motionless after

knowing that her brother had become mentally unstable after seeing the fatal accident on Tuesday night.

Difficulty : Moderate   **Average Time : 69 Seconds**

Options :

1. Motionless

2. Fatal

3. Unstable

4. Accident

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

The meaning of the given words is:

- **Stagnant**: Stagnant refers to a situation or condition where there is little or no movement, growth, or progress.
- **Motionless**: Motionless means without movement or completely still.
- **Fatal**: Fatal refers to something that is deadly or can cause death.
- **Unstable**: Unstable refers to something that is not steady, firm, or secure.
- **Accident**: An accident refers to an unexpected and unintended event that results in damage, injury, or harm.

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

Question 93 :
Select the correct passive form of the given sentence. The new owners hired a lot of new servers.

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

Options :

1. A lot of new servers were hired by the new owners.

2. A lot of new servers are being hired by the new owners.

3. A lot of new servers are hired by the new owners.

4. A lot of new servers had been hired by the new owners.

Solution :
The correct answer is **Option 1** i.e. **A lot of new servers were hired by the new owners.**

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The active form of the given sentence is in **simple past tense.**
- The structure followed in the active form of the given sentence is: **Subject + V2 + Object.**
- The structure to be followed in the passive form of the given sentence is: **Object + was/were + V3 + by + Subject.**

Thus, the correct form of passive voice in the given sentence is:

A lot of new servers were hired by the new owners.

Question 94 :
Select the sentences that contains no spelling errors.

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

Options :
1. I heard raucouos laughter from the next room.

2. I heard raocous laughter from the next room.

3. I heard raucus laughter from the next room.

4. I heard raucous laughter from the next room.

Solution :
The correct answer is **Option 4** i.e. **I heard raucous laughter from the next room.**

- **'Raucous'** is spelled correctly only in **option 4.**
- The meaning of the word **'raucous'** is **'making or constituting a disturbingly harsh and loud noise.'**

Question 95 :
Select the most appropriate synonym of the bracketed word to fill in the blank. There is a huge generation _____ (void) between Arun and his grandparents.

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

Options :
1. traditions

2. gap

3. memory

4. experience

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

The meanings of the given words are:

- **Void**: an empty space or a state of emptiness; a legal term used to refer to a situation where a contract or agreement is not legally binding.
- **Gap**: an empty space or opening in something that is usually complete or continuous; a lack of something.
- **Traditions**: customs or practices that have been passed down from generation to generation and are considered part of the culture or heritage of a group of people.
- **Memory**: the ability to remember past events or experiences; a person's recollection of their past.
- **Experience**: the knowledge or skill acquired through doing, seeing, or feeling things; an event or a period of time that a person goes through and learns from.

Thus, the correct sentence would be:

There is a huge generation **gap** between Arun and his grandparents.

Question 96 :
The following sentence has been split into four segments. Identify the segment that contains a grammatical error. There is a whole world / out there that / is invisible from / the naked eye.

Difficulty : Moderate   Average Time : 81 Seconds

Options :
1. the naked eye

2. is invisible from

3. There is a whole world

4. out there that

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

- The error lies in third part of the given sentence. The preposition 'from' is wrongfully used in the given sentence.
- Preposition 'from' is used to refer to the place where someone or something starts to originate.
- Preposition 'to' is used to refer to a thing or a person that either receives or experiences the object of the verb.
- If we focus on the given setence, 'invisible' is an action and 'the naked eye' will be the receiver.
- Thus, the approropriate preposition will be 'to'.

Therefore, the correct sentence would be:

There is a whole world out there that is invisible **to** the naked eye.

Question 97 :

Select the option that expresses the given sentence in passive voice. Had they not cleared the exam?

Difficulty : Moderate   **Average Time : 69 Seconds**

Options :

1. Is the exam not been cleared by them?

2. Have the exam not been cleared by them?

3. Was the exam not been cleared by them?

4. Had the exam not been cleared by them?

Solution :

The correct answer is **Option 4** i.e. **Had the exam not been cleared by them?**

- The given sentence is in the interrogative form and is written in the **past perfect tense**.
- The structure followed in the active form of the given sentence is: **Had + Subject + not + V3 + Object.**
- The structure to be followed in the passive form of the given sentence is: **Had+ Object+ not + been + V3 + Subject.**

Thus, the correct form of passive voice in the given sentence is:

Had the exam not been cleared by them?

Question 98 :

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. In Tokyo, they built an expressway linking the international airport in Haneda to the centre, and widened some of the city's major arteries. Q. These infrastructure improvements helped to bring about the Japanese economic miracle over the next couple of decades. R. Tokyo 2020 was supposed to be a great economic stimulus, replicating the achievements of Tokyo 1964. S. It was thanks to hosting that Olympics that Japan invested in infrastructure such as the famous Shinkansen bullet train .

Difficulty : Moderate   **Average Time : 92 Seconds**

Options :

1. RSPQ

2. QPRS

SRQP

4. PQRS

Solution :

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

- **Sentence R** introduces the topic of Tokyo 2020 as a potential economic stimulus, replicating the achievements of Tokyo 1964. This sets the stage for the following sentence S.
- **Sentence S** which explains how hosting the 1964 Olympics led to infrastructure investments in Japan, such as the famous Shinkansen bullet train.
- **Sentence P** provides specific examples of these investments, such as the expressway linking Haneda airport to the center and the widening of major arteries in Tokyo.
- Finally, **sentence Q** explains how these infrastructure improvements helped to bring about the Japanese economic miracle over the next couple of decades.

Thus, the correct sentence would be:

Tokyo 2020 was supposed to be a great economic stimulus, replicating the achievements of Tokyo 1964. It was thanks to hosting that Olympics that Japan invested in infrastructure such as the famous Shinkansen bullet train. In Tokyo, they built an expressway linking the international airport in Haneda to the centre, and widened some of the city's major arteries. These infrastructure improvements helped to bring about the Japanese economic miracle over the next couple of decades.

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. Academic life has (1) _____ demanding for students as a result of different internal and external expectations. Teenagers are especially (2)_____ to academic stress because they go through so many personal and social changes. As a result, designing effective and efficient (3) _____ solutions requires a thorough understanding of the causes and consequences of academic stress. Exams are one of the (4)_____ aspects of anyone's life. Exams are stressful for everyone, whether they are students or adults because everyone wants to perform well and no one wants to fail as to avoid (5) _____ in future.

Question 99 :

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

Difficulty : Moderate   **Average Time : 116 Seconds**

Options :

1. scared

prone

3. liable

4. resistance

Solution :

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

- **The meaning of the given words is:**
- Prone: Prone means to be likely or inclined to do or experience something.
- Scared: Scared means to be afraid or fearful of something. It can also refer to a feeling of anxiety or apprehension caused by a perceived threat or danger.
- Liable: Liable means to be legally responsible for something or subject to a particular duty or obligation.
- Resistance: Resistance refers to the act of opposing or withstanding something, often with the aim of preventing or reducing its effects.

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

Therefore, the correct sentence is:

*Teenagers are especially **prone** to academic stress because they go through so many personal and social changes.*

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. Academic life has (1) _____ demanding for students as a result of different internal and external expectations. Teenagers are especially (2)_____ to academic stress because they go through so many personal and social changes. As a result, designing effective and efficient (3) _____ solutions requires a thorough understanding of the causes and consequences of academic stress. Exams are one of the (4)_____ aspects of anyone's life. Exams are stressful for everyone, whether they are students or adults because everyone wants to perform well and no one wants to fail as to avoid (5) _____ in future.

Question 100 :

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

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

Options :

1. ambiguity

2. sneak

3. wanderlust

purpose

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

The meanings of the given words are:

- **Ambiguity**: Ambiguity refers to a situation where something is unclear or has more than one interpretation or meaning, making it difficult to understand or explain without further clarification.
- **Sneak**: Sneak can refer to a person who behaves in a secretive or stealthy manner, often to avoid being noticed or caught doing something wrong.
- **Purpose**: Purpose is a reason or intention behind a particular action, decision, or goal. It refers to the underlying motivation or objective that drives someone to do something, often with a sense of direction or meaning.
- **Wanderlust**: Wanderlust is a strong desire or impulse to travel and explore the world. It often describes a feeling of restlessness or a longing to experience new places, cultures, and adventures.

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

Therefore, the correct sentence would be:

*Exams are stressful for everyone, whether they are students or adults because everyone wants to perform well and no one wants to fail as to avoid **ambiguity** in future.*

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 Morning exam is as follows:

1. 100 questions were moderate.
2. The safe score is 140 marks.
3. 25 questions were asked from Logical Reasoning, 25 questions were asked from English Language, 25 questions were asked from General Awareness and 25 questions were asked from Quantitative Aptitude
4. 29 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
7. Figure Based - 4
8. Series - 3
9. Mathematical Reasoning - 3
10. Cubes And Dice - 1

English Language

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

General Awareness

1. GK Misc - 25

Quantitative Aptitude

Ssc Cgl Tier I Previous Year Question Paper Tips and Tricks

TIPS & TRICKS

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

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