Ssc Cgl Tier I Previous Year Question Paper Overview

Here, you can solve all the questions asked in Ssc Cgl Tier I Previous Year Question Paper on 2022-12-05 in the 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 :
If $(x^2+y^2+z^2=xy+yz+zx)$ and x = 1, then find the value of $\left(\frac{10x^4+5y^4+7z^4}{13x^2y^2+6y^2z^2+3z^2x^2}\right)$

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

Options :

1. 2

2. 0

3. -1

4. 1

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

We have given

$(x^2+y^2+z^2=xy+yz+zx)$.........(1)

x = 1

Put y = 1 and z = 1 in equation 1.

$1^2 + 1^2 + 1^2 = 1 + 1 + 1$

3 = 3

Satisfied

So, the value of $\frac{10x^4+5y^4+7z^4}{13x^2y^2+6y^2z^2+3z^2x^2}$

(10 + 5 + 7)/(13 + 6 + 3) = 22/22 = 1

Question 2 :
Select the idiom from the given options that gives the most appropriate meaning of the highlighted text in the following sentence. The announcement of the new tourism policy of the government has made some people excited or interested.

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

Options :

1. Pull out all the stops

2. Run around in circles

3. Quicken the pulse

4. Reach for the moon

Solution :

The correct answer is **option 3** i.e. **Quicken the pulse.**

The meaning of the following idioms is:

- **Quicken the pulse**: To cause the heart rate to increase, often due to excitement, anticipation, or fear.
- **Pull out all the stops**: To make a maximum effort, using all available resources or strategies.
- **Run around in circles**: To engage in activity or behavior that is unproductive, aimless, or repetitive, without making progress or achieving a desired outcome.
- **Reach for the moon**: To set ambitious goals or aspirations, often aiming for something that seems difficult or beyond reach.

Thus, the most appropriate idiom for the given sentence is ***'Quicken the pulse'.***

Question 3 :
The following chart shows the scrores of employees in a company's annual performance. What is the percentage of Kartik's score out of the total score of all the employees?

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

Options :
1. 23.14%

30%

3. 22%

4. 20%

Solution :

The correct answer is **option 4** i.e. **20%.**

the percentage of Kartik's score out of the total score of all the employees = (80/400) ✗ 100 = 20%

Question 4 :

If the 9 - digit number 83P93678Q is divisible by 72, then what is the value of $(\sqrt{P^2+Q^2+12}?)$

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

Options :

1. 6

2. 7

3. 8

4. 9

Solution :

The correct answer is **option 3** i.e. **8.**

83P93678Q

The above number is divisible by 72 so it is also divisible by 9 and 8.

8 divisibility rule = The last three digits will divide by 8

9 divisibility rule = The sum of the digit will also divide by 9

So Q = 4

Because 784 is divisible by 8.

sum of the digits = 8 + 3 + P + 9 + 3 + 6 + 7 + 8 + 4 = P + 48

Put P = 6

6 + 48 = 54

That is divisible by 9.

So, $\sqrt{P^2+Q^2+12} = \sqrt{6^2+4^2+12}$

= $\sqrt{64}=8$

Question 5 :

Two tourist buses start from the same point and move along two roads at right angles at speeds of 48 km/h and 36 km/h, respectively. the distance between the buses after 15 seconds is_____

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

Options :

1. 175m
2. 350m
3. 250m
4. 150m

Solution :

The correct answer is **option 3** i.e. **250m.**

Speed = Distance/time

The total distance covered by Bus A in 15 sec = 48 × 5/18 × 15 = 200m

The total distance covered by Bus B in 15 sec = 36 × 5/18 × 15 = 150m

In right angle track :

$H^2 = 200^2 + 150^2$

$H^2 = 62500$

H = 250m

So, the distance between the buses = 250m

Question 6 :

During the first year, the population of the town increased by 12%. The next year, due to some contagious disease, it decreased by 8%. At the end of the second year, the population was 64,400. Find the population of the town at the beginning of the first year.

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

Options :

50,000

2. 54,750

3. 62,500

4. 50,500

Solution :

The correct answer is **option 3** i.e. **62,500.**

Let's assume the initial population of the town = x

Now, according to the question

x × (112/100) × 92/100 = 64400

x = 62,500.

So, the initial population of the town = 62,500.

Question 7 :
There are 3 taps A, B, and C in a tank. These can fill the tank in 10 hours, 20 hours and 25 hours, respectively. At first, all three taps are opened simultaneously. After 2 hours, tap C is closed and A and B keep running. After 4 hours from the beginning, tap B is also closed. The remaining tank is filled by tap A alone. Find the percentage of work done by tap A itself.

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 32%

2. 75%

3. 52%

4. 72%

Solution :

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

A can fill the tank = 10 hours

B can fill the tank = 20 hours

C can fill the tank = 25 hours

Capacity of the tank = LCM of 10, 20, and 25 = 100

Efficiency of tank A = 100/10 = 10

Efficiency of tank B = 100/20 = 5

Efficiency of tank C = 100/25= 4

tank fill in first two hours by A, B, and C = (10 + 5 + 4) × 2 = 38

For next two hours Pipe A and B are opened = (10 + 5) × 2 = 30

Remaining capacity of the tank = 100 - 68 = 32

So, total tank filled by A = (10 × 2 + 10 × 2 + 32) = 72

Required percentage = 72/100 × 100 = 72%

Question 8 :
Select the correct passive form of the given sentence. The department conferred a scholarship to Kailash.

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

Options :
1. A scholarship had been conferred to Kailash by the department.

2. A scholarship is being conferred to Kailash by the department.

3. A scholarship was conferred to Kailash by the department.

4. A scholarship has been conferred in Kailash by the department.

Solution :
The correct answer is **option 3** i.e. **A scholarship was conferred to Kailash by the department.**

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

-   Identify the subject, verb, and object: In this case, the subject is "the department," the verb is "conferred," and the object is "a scholarship to Kailash."

-   Move the object to the subject position: The object "a scholarship to Kailash" will become the new subject of the passive sentence.

-   Change the verb to its passive form: The verb "conferred" will change to its passive form, which is formed by using the auxiliary verb "be" (in the appropriate tense) followed by the past participle of the main verb. In this case, the

passive form of "conferred" is "was conferred."

- Include the agent (optional): If the agent, the doer of the action, is known or important to mention, it can be included using the preposition "by." In this case, the agent is "the department," so the passive sentence can include it as "by the department."

Thus, the passive form of the sentence would be:

A scholarship was conferred to Kailash by the department.

Question 9 :
Select the correct indirect form of the given sentence. Madhurima explained, "I am planning to quit my graduation."

Difficulty : Moderate	Average Time : 104 Seconds

Options :

1. Madhurima explained that she were planning to quit her graduation.

2. Madhurima explained that she planned to quit her graduation.

3. Madhurima explained that she was planning to quit her graduation.

4. Madhurima explained that she had been planning to quit her graduation.

Solution :
The correct answer is **option 3** i.e. **Madhurima explained that she was planning to quit her graduation.**

Follow the following steps to convert the given direct form sentence into its indirect form:

- Identify the reporting verb: In this case, the reporting verb is "explained."

- Introduce a reporting clause: Begin the indirect form of the sentence with a reporting clause such as "Madhurima explained that" or "Madhurima said that."

- Change the tense of the verb: Since the reporting verb is in the past tense ("explained"), the verb in the reported speech needs to be shifted to a corresponding past tense. In this case, "am planning" changes to "was planning."

- Change the pronouns if necessary: If the subject of the reported speech (Madhurima) is different from the subject of the reporting clause (Madhurima), adjust the pronouns accordingly. In this case, since both subjects are the same, no pronoun change is needed.

- Introduce a reporting verb complement: Include a reporting verb complement, such as "that" or "whether," before the reported speech to connect it to the reporting clause. In this case, "that" can be used.

Thus, the most appropriate indirect form of the sentence would be:

Madhurima explained that she was planning to quit her graduation.

Question 10 :
Select the INCORRECTLY spelt word.

Difficulty : Moderate

Average Time : 105 Seconds

Options :

1. Dimolish
2. Conduct
3. Biopic
4. Handful

Solution :
The correct answer is **option 1** i.e. **Dimolish.**

The correct spellings and meaning of the given words are:

- **Demolish**: To completely destroy or dismantle a structure or object, often through force or intentional action.
- **Conduct**: To organize, manage, or carry out an activity, event, or process; to direct or oversee the execution of something.
- **Biopic**: A biographical film or movie that depicts the life and events of a real person, typically focusing on significant aspects or periods of their life.
- **Handful**: A small quantity or number of something that can be held in one hand; typically used to describe a small, manageable amount or a limited number of people or things.

Question 11 :
Select the most appropriate ANTONYM of the underlined word. The Government ruthlessly decided to force its citizens to pay taxes even during famine.

Difficulty : Moderate

Average Time : 67 Seconds

Options :

Leniently

2. Indifferently

3. Unscrupulously

4. Tyrannically

Solution :
The correct answer is **option 1** i.e. **Leniently.**

The meaning of the given words is:

- **Ruthlessly**: Acting or behaving without compassion, mercy, or remorse; showing no regard for the feelings or well-being of others.
- **Leniently**: Acting or behaving with tolerance, forgiveness, or mildness; showing a relaxed or lenient approach in enforcing rules or punishment.
- **Indifferently**: Acting or behaving without interest, concern, or enthusiasm; showing a lack of emotional or personal involvement.
- **Unscrupulously**: Acting or behaving without moral principles or ethical standards; showing a disregard for what is right or fair.
- **Tyrannically**: Acting or behaving in a tyrannical or oppressive manner; exercising absolute power or control without regard for the rights or freedoms of others.

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

Question 12 :
Select the most appropriate option that can substitute the underlined segment in the given sentence. Mother ordered John to switch on the light as it was time to sleep.

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

Options :
1. to switch of the light

2. to switch in the light

3. to switch off the light

4. to switch out the light

Solution :

The correct answer is **option 3** i.e. **to switch off the light.**

- The sentence suggests that John received an instruction or command from his mother to perform a specific action.
- In this sentence, the underlined segment is "switch on the light." The verb phrase "switch on" indicates the action of turning on the light.
- To identify the most appropriate option to substitute the underlined segment, we need to consider other verbs that convey a similar meaning or indicate the action of turning on the light.
- Given that context, the option "switch off the light" is the most suitable substitution. This option maintains the intended meaning and effectively conveys the action instructed by the mother.
- Therefore, the correct option to substitute the underlined segment is "switch the light."

Thus, the corrected sentence is:

*Mother ordered John to **switch off the light** as it was time to sleep.*

Question 13 :
Select the word that is OPPOSITE in meaning to the given word. Cease

Difficulty : Moderate   **Average Time : 80 Seconds**

Options :
1. Origin
2. Halt
3. Produce
4. Begin

Solution :
The correct answer is **option 4** i.e. **Begin.**

The meaning of the given words is:

- **Cease**: To stop or come to an end; to discontinue an action, process, or activity.
- **Begin**: To start or initiate something; to commence an action, process, or activity.
- **Origin**: The point or source from which something arises, starts, or is derived; the beginning or cause of something.
- **Halt**: To bring to a stop or pause; to cease or discontinue movement or progress.
- **Produce**: To create, generate, or bring forth something; to make or manufacture goods or products.

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

Question 14 :
Select the option that contains a grammatical error in the underlined portion. There are no tables at the classroom.

Difficulty : Moderate

Average Time : 67 Seconds

Options :
1. There are no tables at the classroom.

2. There are no tables at the classroom.

3. There are no tables at the classroom.

4. There are no tables at the classroom.

Solution :
The correct answer is **option 4** i.e. **There are no tables at the classroom.**

- The sentence contains a grammatical error in the underlined portion.
- The error lies in the use of the preposition "at" before the word "classroom."
- In this context, the correct preposition to use is "in" instead of "at."
- By replacing "at" with "in," the sentence adheres to the standard prepositional usage, indicating the location or position of the tables inside the classroom.

Thus, the corrected sentence is:

There are no tables **at** the classroom.

Question 15 :
Select the most appropriate meaning of the given idiom. In hot waters

Difficulty : Moderate

Average Time : 67 Seconds

Options :
1. To be in trouble

2. To dip in hot water

3. To be in a hot climate

4. To feel relaxed

Solution :
The correct answer is **option 1** i.e. **To be in trouble.**

The meaning of the given idiom, **in hot waters** is **in trouble or disgrace**.

*Therefore, the most appropriate choice among the given options is '**To be in trouble.**'*

Question 16 :
Select the most appropriate collocation to substitute the underlined word in the given sentence. The intern should take a right choice in choosing the right job for her.

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

Options :
1. rake a right choice
2. make a right choice
3. fix a right choice
4. take the right choice

Solution :
The correct answer is **option 2** i.e. **make a right choice.**

- The underlined part of the given sentence is erroneous in nature.
- The phrase "take a right choice" is not a commonly used collocation in English.
- The phrase "make the right choice" is a standard collocation that is commonly used to convey the idea of selecting the most appropriate option or decision.

Therefore, the revised sentence would be:

*The intern should **make the right choice** in choosing the right job for her.*

Question 17 :
Select the option that is similar in meaning to the underlined word. No plausible explanation could be found for her disappearance.

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

Options :
1. Just
2. Legal
3. Credible
4. Useless

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

The meaning of the given words is:

- **Plausible**: Something that is plausible is believable or reasonable based on the available evidence or information. It suggests that an idea, explanation, or statement is likely to be true or valid.
- **Credible**: Credible means being worthy of trust, confidence, or belief. It refers to information, sources, or individuals that are considered reliable, trustworthy, and believable.
- **Just**: Just refers to being fair, morally right, or in accordance with principles of justice. It implies acting or making decisions based on what is right, equitable, or lawful.
- **Legal**: Legal relates to laws, regulations, or procedures established by a governing authority. It indicates something that is permitted, authorized, or conforming to the law.
- **Useless**: Useless describes something that has no practical value, purpose, or benefit. It suggests that an object, action, or idea lacks usefulness or effectiveness in achieving a desired outcome.

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

Question 18 :
Select the option that can be used as a one-word substitute for the given group of words. An excessively intense desire for returning to past or lost conditions

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

Options :

1. Affection
2. Glitterati
3. Nostalgia
4. Paranoia

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

The meaning of the given words is:

- **Nostalgia**: A sentimental longing or wistful affection for the past, typically for a period or place with positive associations.

Affection: A gentle and tender feeling of fondness, warmth, or love towards someone or something.
- **Glitterati**: A term used to describe a group of fashionable, influential, or high-profile people, typically associated with the entertainment, fashion, or celebrity industry.
- **Paranoia**: A mental state characterized by extreme or irrational distrust, suspicion, or anxiety towards others.

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

Question 19 :

Select the option that can be used as a one-word substitute for the given group of words. The act of killing one's mother

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. Regicide

2. Homicide

3. Uxoricide

4. Matricide

Solution :

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

The meaning of the given words is:

- **Matricide**: The act of killing one's own mother.
- **Regicide**: The act of killing a monarch or ruler, or the person who commits such an act.
- **Homicide**: The act of killing another human being, whether it is intentional or unintentional.
- **Uroxicide**: The term "uroxicide" does not have a commonly recognized meaning in the English language. It is not a commonly used word and does not appear in standard dictionaries.

*Therefore, the most appropriate one word substitution for the given word is **Matricide.***

Question 20 :

Select the correct active form of the given sentence. This game will not be played by you.

Difficulty : Moderate

Average Time : 64 Seconds

Options :

1. You will not play this game.

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> You will not be playing this game.

3. You could not play this game.

4. You had not play this game.

Solution :

The correct answer is **option 1** i.e. **You will not play this game.**

The following steps are followed to convert the given passive voice sentence into its active form:

- Identify the subject: In the passive voice sentence, the subject is "you," the person or group performing the action.

- Determine the active verb: Look for the main action in the sentence. In this case, the verb is "played."

- Identify the object: In the passive voice sentence, the object is "game," the receiver of the action.

- Rearrange the sentence: Start with the subject, followed by the active verb, and then the object.

- Make necessary tense and pronoun changes: Adjust the verb tense and pronouns to match the active voice sentence. In this case, "will not be played" becomes "will not play" to maintain the future tense.

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

You will not play this game.

Question 21 :
Rearrange the parts of the sentence in correct order. We are encouraged P. help accelerate their return to Q. by how women are embracing online R. work and promote economic mobility S. learning to develop new skills that can

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

Options :

1. PQSR

2. PSQR

3. PRQS

4. SPRQ

Solution :

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

The sentence starts with the phrase "We are encouraged" which introduces the main idea or subject of the sentence.

- It is followed by "by how women are embracing online" (**Sentence Q**), which provides additional information about the actions of women in the context of online engagement.
- The sentence then continues with "learning to develop new skills that can" (**Sentence S**), which describes the purpose or objective of women's actions.
- Then, it is followed by (**Sentence P**) that states "help accelerate their return to" implying the result of online learning.
- Finally, the sentence concludes with "work and promote economic mobility" (**Sentence R**), which specifies the intended outcome or result of women developing new skills.
- The correct order of the sentence allows for a logical flow of ideas and maintains grammatical coherence.

Therefore, the corrected sentence is:

We are encouraged by how women are embracing online learning to develop new skills that can help accelerate their return to work and promote economic mobility.

Question 22 :

Select the most appropriate synonym of the given word. Wrathful

Difficulty : Moderate

Average Time : 88 Seconds

Options :

1. Pleased
2. Amiable
3. Furious
4. Cordial

Solution :

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

The meaning of the given words is:

- **Wrathful**: Characterized by intense anger, rage, or fury. It refers to a state of extreme displeasure or wrath, often

accompanied by a desire for vengeance or punishment.

- **Furious**: Feeling or expressing extreme anger, rage, or intense passion. It conveys a sense of great agitation or fury, often resulting from a perceived wrongdoing or provocation.
- **Pleased**: Feeling or showing satisfaction, contentment, or happiness. It indicates a state of being pleased or gratified with a situation, outcome, or experience.
- **Amiable**: Having a friendly and pleasant disposition, characterized by being kind, agreeable, or easy to get along with.
- **Cordial**: Friendly, warm, and sincere in manner or behavior. It implies a genuine and heartfelt kindness, often accompanied by a willingness to engage in friendly conversation or interaction.

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

Question 23 :

Select the INCORRECTLY spelt word in the following sentence. Ratan is such an efficient sergeant that he doesn't need to imbibe any artillery raftmanship.

Difficulty : Moderate   **Average Time : 80 Seconds**

Options :

1. artillery

2. efficient

3. craftmanship

4. sergeant

Solution :

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

The correct spellings and meanings of the given words are:

- **Craftsmanship**: The skill, quality, or artistry displayed in the creation or production of handmade or finely crafted objects.
- **Artillery**: Large caliber firearms or heavy weapons, often used in warfare, that are designed to project munitions over long distances.
- **Efficient**: The ability to accomplish a task or achieve a goal with the optimal use of resources, time, or effort.
- **Sergeant**: A noncommissioned military rank or position, typically in the army or marine corps, above the rank of corporal and below that of staff sergeant.
- Thus, the correct spelling of the wrongly spelled word is **C-R-A-F-T-M-A-N-S-H-I-P.**

Question 24 :

Select the most appropriate option to substitute the underlined segment in the given sentence. Biden write a letter to the Russian President to restrain from war.

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

Options :

1. writes a letter

2. wrote a letter

3. write a good letter

4. writing a surprise letter

Solution :

The correct answer is **option 2** i.e. **wrote a letter.**

The verb form "write" is incorrect in this sentence.

In order to correct the sentence, we need to use the appropriate verb form that agrees with the subject "Biden."

The correct verb form to use in this sentence is "writes," which is the third-person singular form of the verb "write" that agrees with the subject "Biden."

Doing so will make the sentence use the correct verb form, also maintain the subject-verb agreement.

This makes the corrected sentence:

*Biden **writes** a letter to the Russian President to restrain from war.*

Question 25 :
Select the sentence with the appropriate use of preposition.

Difficulty : Moderate   **Average Time : 66 Seconds**

Options :

1. We have been playing for 4 o'clock.

2. We have been playing from 4 o'clock.

3. We have been playing to 4 o'clock.

We have been playing since 4 o'clock.

Solution :

The correct answer is **option 4** i.e. **We have been playing since 4 o'clock.**

- The preposition "since" is used to indicate a starting point or a specific time from which an action or state has been ongoing.
- In this sentence, "since" is correctly used to convey that the action of playing started at 4 o'clock and has continued up until the present time.
- The use of "since" is appropriate to express the duration of the activity.

Therefore, the sentence with correct usage of a preposition is:

We have been playing **since** 4 o'clock.

Question 26 :
Select the most appropriate option to fill in the blank. I looked at her face and found she was getting disturbed. I decided to drop that _____.

Difficulty : Moderate   Average Time : 71 Seconds

Options :

1. product

2. chance

3. subject

4. pride

Solution :

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

- In the given sentence, the context suggests that the speaker observed the other person's disturbed expression and decided not to continue or pursue the specific topic of conversation or discussion.
- The word "**subject**" is suitable in this context as it refers to the particular matter or topic under discussion.
- By choosing to drop that "subject," the speaker decides not to continue talking about it to avoid further disturbance or discomfort.
- Thus, the most appropriate filler for the given blank is **subject.**

Therefore, the completed sentence is:

I looked at her face and found she was getting disturbed. I decided to drop that **subject.**

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. A robot is a mechanical or virtual artificial agent, usually an electromechanical machine that is (1)_____ by a computer programme or electronic circuitry. In general, robots can be autonomous or semi-autonomous and are now used in different fields. They have replaced (2)_____ in performing repetitive and dangerous tasks which humans prefer not to do, or are unable to do because of size limitations, or which take place in extreme (3)_____ such as outer space or the bottom of the sea. For instance, robots can now be used in industry, as in car manufacturing, or they can be used in homes to do the (4)_____. Some robots may respond to speech or even be medical operating tools. There are concerns about the increasing use of robots and their role in society. Robots are blamed for the rising (5)_____ as they replace workers in increasing numbers of functions.

Question 27 :
Select the most appropriate option to fill in blank number 1.

Difficulty : Moderate   **Average Time : 109 Seconds**

Options :

1. included

2. chased

3. guided

4. challenged

Solution :

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

The meaning of the given words is:

- **Guided**: To lead, direct, or assist someone in navigating or making decisions, typically through providing instructions, advice, or support.
- **Included**: To have something or someone as part of a group, set, or whole. It implies that the mentioned item or individual is part of a larger entity or collection.
- **Chased**: To pursue or run after something or someone with the intention of catching or capturing them. It typically involves a rapid or energetic pursuit.
- **Challenged**: To present or pose a difficult task, problem, or situation that requires effort, skill, or determination to overcome. It can also refer to questioning or doubting someone's abilities or beliefs in a way that encourages them to prove themselves.
- Thus, the most appropriate filler for the given blank is **guided.**

Therefore, the completed sentence is:

*A robot is a mechanical or virtual artificial agent, usually an electromechanical machine that is **guided** by a computer*

programme or electronic circuitry.

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. A robot is a mechanical or virtual artificial agent, usually an electromechanical machine that is (1)_____ by a computer programme or electronic circuitry. In general, robots can be autonomous or semi-autonomous and are now used in different fields. They have replaced (2)_____ in performing repetitive and dangerous tasks which humans prefer not to do, or are unable to do because of size limitations, or which take place in extreme (3)_____ such as outer space or the bottom of the sea. For instance, robots can now be used in industry, as in car manufacturing, or they can be used in homes to do the (4)_____. Some robots may respond to speech or even be medical operating tools. There are concerns about the increasing use of robots and their role in society. Robots are blamed for the rising (5)_____ as they replace workers in increasing numbers of functions.

Question 28 :

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

Difficulty : Moderate   **Average Time : 127 Seconds**

Options :

1. machines

2. humans

3. agents

4. toys

Solution :

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

The meaning of the given words is:

- **Machines**: Inanimate devices or mechanical systems designed to perform specific functions or tasks, often powered by electricity or other sources of energy.
- **Humans**: Homo sapiens, the species to which modern human beings belong. Humans are characterized by their ability to think, reason, communicate, and exhibit complex social and cultural behaviors.
- **Agents**: Individuals or entities that have the ability to act, make choices, or exert influence. In various contexts, agents can refer to human actors, software programs, or other entities that actively participate in a process or system.
- **Toys**: Objects or playthings designed for amusement, entertainment, or the development of skills in children or sometimes even adults.

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

Therefore, the completed sentence is:

"*They have replaced **machines** in performing repetitive and dangerous tasks which humans prefer not to do, or are unable to do because of size limitations...*"

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. A robot is a mechanical or virtual artificial agent, usually an electromechanical machine that is (1)_____ by a computer programme or electronic circuitry. In general, robots can be autonomous or semi-autonomous and are now used in different fields. They have replaced (2)_____ in performing repetitive and dangerous tasks which humans prefer not to do, or are unable to do because of size limitations, or which take place in extreme (3)_____ such as outer space or the bottom of the sea. For instance, robots can now be used in industry, as in car manufacturing, or they can be used in homes to do the (4)_____. Some robots may respond to speech or even be medical operating tools. There are concerns about the increasing use of robots and their role in society. Robots are blamed for the rising (5)_____ as they replace workers in increasing numbers of functions.

Question 29 :
Select the most appropriate option to fill in blank number 3.

Difficulty : Moderate

Average Time : 126 Seconds

Options :

1. beauty

2. pattern

3. enjoyment

4. environments

Solution :
The correct answer is **option 4** i.e. **environments.**

The meaning of the given words is:

- **Environments**: The surrounding conditions, circumstances, or settings in which someone or something exists or operates. It can refer to physical, social, or cultural surroundings that impact an individual or a system.
- **Beauty**: The quality or combination of qualities that gives pleasure to the senses or the mind, often associated with aesthetic appeal, attractiveness, or a pleasing appearance.
- **Pattern**: A repeated arrangement, design, or sequence of elements, often exhibiting regularity, symmetry, or

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predictability. Patterns can be found in various contexts, such as in nature, mathematics, art, or behavior.

- **Enjoyment**: The state or experience of taking pleasure, delight, or satisfaction in something. It relates to the feeling of finding joy or happiness through an activity, situation, or object.
- Thus, the most appropriate filler for the given blank is **environments**

Therefore, the completed sentence is:

*...dangerous tasks which humans prefer not to do, or are unable to do because of size limitations, or which take place in extreme **environments** such as outer space or the bottom of the sea.*

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. A robot is a mechanical or virtual artificial agent, usually an electromechanical machine that is (1)_____ by a computer programme or electronic circuitry. In general, robots can be autonomous or semi-autonomous and are now used in different fields. They have replaced (2)_____ in performing repetitive and dangerous tasks which humans prefer not to do, or are unable to do because of size limitations, or which take place in extreme (3)_____ such as outer space or the bottom of the sea. For instance, robots can now be used in industry, as in car manufacturing, or they can be used in homes to do the (4)_____. Some robots may respond to speech or even be medical operating tools. There are concerns about the increasing use of robots and their role in society. Robots are blamed for the rising (5)_____ as they replace workers in increasing numbers of functions.

Question 30 :
Select the most appropriate option to fill in blank number 4.

Difficulty : Moderate   Average Time : 130 Seconds

Options :
1. network
2. housework
3. software
4. handwork

Solution :
The correct answer is **option 2** i.e. **housework.**

The meaning of the given words is:

- **Housework**: The tasks and chores involved in maintaining and managing a household, such as cleaning, cooking, laundry, and other domestic responsibilities.

Network: A system of interconnected elements or entities, often used in reference to computer networks, where multiple devices are connected to share information and resources.

- **Software**: Programs, instructions, or data that enable a computer or electronic device to perform specific tasks, including applications, operating systems, and utilities.
- **Handwork**: The manual or physical labor performed by hand, often involving skilled craftsmanship, such as woodworking, sewing, knitting, or other forms of artisanal work.
- Thus, the most appropriate filler for the given blank is **housework.**

Therefore, the completed sentence is:

For instance, robots can now be used in industry, as in car manufacturing, or they can be used in homes to do the **housework***.*

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. A robot is a mechanical or virtual artificial agent, usually an electromechanical machine that is (1)_____ by a computer programme or electronic circuitry. In general, robots can be autonomous or semi-autonomous and are now used in different fields. They have replaced (2)_____ in performing repetitive and dangerous tasks which humans prefer not to do, or are unable to do because of size limitations, or which take place in extreme (3)_____ such as outer space or the bottom of the sea. For instance, robots can now be used in industry, as in car manufacturing, or they can be used in homes to do the (4)_____. Some robots may respond to speech or even be medical operating tools. There are concerns about the increasing use of robots and their role in society. Robots are blamed for the rising (5)_____ as they replace workers in increasing numbers of functions.

Question 31 :
Select the most appropriate option to fill in blank number 5.

Difficulty : Moderate   **Average Time : 121 Seconds**

Options :
1. unemployment
2. peace
3. social issues
4. corruption

Solution :
The correct answer is **option 1** i.e. **unemployment.**

The context of the sentence suggests that robots are being held responsible for the increasing number of people without jobs.

Let us further understand the meaning of the given words:

- **Unemployment**: The state of being without a job or work, typically referring to individuals who are actively seeking employment but are unable to find suitable opportunities.
- **Peace**: A state of tranquility, harmony, and absence of conflict or violence, both at an individual and societal level.
- **Social Issues**: Matters or problems that affect society as a whole or a particular group within it, typically related to social, economic, or political concerns. Examples include poverty, inequality, discrimination, and access to education or healthcare.
- **Corruption**: Dishonest or unethical behavior, particularly involving the abuse of power or position for personal gain, often associated with bribery, fraud, embezzlement, or other forms of illicit practices in public or private institutions.
- Thus, the most appropriate filler for the given blank is **unemployment.**

Therefore, the completed sentence is:

*Robots are blamed for the rising **unemployment** as they replace workers in increasing numbers of functions.*

Question 32 :
As per the Hindu calendar, the Ugadi festival in southern states of India is celebrated in which of the following months?

Difficulty : Moderate

Average Time : 91 Seconds

Options :

1. Margashirsha
2. Vaishaka
3. Chaitra
4. Shravan

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

Hindus in the southern Indian states of Andhra Pradesh, Karnataka, and Telangana observe the festival of Ugadi. The festival, which ushers in a fresh cycle of the Hindu calendar, is observed on the first day of the "Chaitra" month, which, according to the Gregorian calendar, falls in March and April.

Question 33 :

Who among the following was the winner of the National Film Award in 2002 for his choreography in the Hindi movie 'Lagaan'?

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

Options :

1. Ahmed Khan

2. Raju Khan

3. Dinesh Kumar

4. Shiamak Davar

Solution :

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

- Raju Khan is the son of the ace choreographer Saroj Khan. He is also a choreographer and writer and director who started his Bollywood career by assisting his mother in movies like Aasha, Aas Paas, and Dacait.
- Raju Khan made an impact upon entering the industry. With films like "Koi Mil Gaya" and "Lagaan," his work was more widely recognized and refined in the millennium year, which led to his increased success.
- Best Choreography at the 2001 National Awards Lagaan.

Question 34 :

Which of the following is a feature of public goods?

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

Options :

1. These goods are more competitive.

2. These goods are limited in supply.

3. Consumption of one person does not affect the consumption of another person.

4. Only tax payers can get the benefit of public goods.

Solution :

The correct answer is **option 3** i.e. **Consumption of one person does not affect the consumption of another person.**

Public commodities that are consumed by people but whose supply is unaffected by use are known as non-rivalrous products. In other words, the quantity of a given good that is available for use by others is unaffected when a person or group of people consumes it.

One example of a non-rival good is television; when one consumer turns on their TV, it does not stop the TV in another consumer's home from working. Television transmissions are non-rival products, whereas the television itself is a rival good.

Question 35 :

Which of the following is a right under Article 300A?

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

Options :

1. Right to freedom

2. Right to life

3. Right to property

4. Right to education

Solution :

The correct answer is **option 3** i.e. **Right to property.**

After the 44th Constitutional Amendment was passed in 1978, property right was no longer a fundamental freedom. Article 300-A in part XII established it as a constitutional right. Article 300-A mandates that the state follow due process and legal authority before taking away someone's private property.

- It implies that nobody can take away a person's property unless it is done by the state. The provision gives the state the right to seize an individual's private property for the sake of the general welfare. The state must acquire land for the benefit of the public, however, and the law governing the acquisition of the property must be lawful.

Question 36 :

Which of the following is known as the world's wettest place?

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

Options :

1. Waialeal

2. Mumbai

3. Mawsynram

4. Singapore

Solution :

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

Northeastern India's Meghalaya state is where Mawsynram is located. The settlement is located in the East Khasi Hills 60.9 km away from Shillong. The most precipitation falls at Mawsynram, India. It is regarded as the wettest place on Earth with 11,872 millimetres of rainfall on average per year.

- Mawsynram has a subtropical highland climate. It features a brief dry season and an exceptionally long, rainy monsoon season. Mawsynram's high altitude prevents it from getting very hot very often. From about 11 °C in January to a little over 20 °C in August, on average, per month.

Mawsynram's excessive rainfall is caused by:

- During the monsoon, the Bay of Bengal's northward-moving, warm, and moist winds are compelled to converge over the Khasi Hills, where they concentrate their moisture.
- Directly blocking the breeze coming from the Bay of Bengal are the Khasi Hills. More rain comes as a result of the air being quickly lifted.
- The Khasi Hills experience practically constant elevation throughout the monsoon season. As a result, rainfall is essentially constant.

Question 37 :
In September 2022, which legislative assembly withdrew a bill aimed at prohibiting the movement of stray cattle on roads and public places in urban areas of the state, months after it was passed?

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

Options :
1. Andhra Pradesh
2. Gujarat
3. Uttar Pradesh
4. Assam

Solution :
The correct answer is **option 2** i.e. **Gujarat**

The Cattle Control Bill was overwhelmingly dropped by the Gujarat Legislative Assembly as a result of opposition from groups around the state that raise cattle.

Key facts-

- In Gujarat's metropolitan areas, the proposed legislation attempted to outlaw the movement of stray cattle on roads and in public spaces.

It covered 162 towns in Gujarat as well as 8 major cities, including Ahmedabad, Vadodara, Surat, Rajkot, Gandhinagar, Jamnagar, Bhavnagar, and Junagadh.

- The Gujarat Cattle Control (Keeping and Moving) In Urban Areas Bill required cattle rearers to acquire a permit to retain strays such as cows and bulls in cities and towns and to have them microchipped.
- The owner of the cow will be penalized with up to a year in prison, a fine of Rs. 10,000, or both if he fails to tag the cattle within 15 days.
- The law forbids feeding cattle in cities where there aren't specified areas because it disturbs residents, especially on the roadways.
- Anyone who assaults authorities or places obstacles in the way of civic officers' efforts to capture animals will receive a year in prison and a minimum punishment of Rs. 50,000.
- The practice of keeping cows, buffaloes, bulls, and goats in urban areas was brought up since it is problematic for city dwellers when these animals stray onto streets and other public areas.

Question 38 :
Who became the Nawab of Bengal in 1756 after the death of Alivardi Khan?

Difficulty : Moderate   **Average Time : 95 Seconds**

Options :
1. Siraj Ud Daulah
2. Nigam Shaan
3. Shaan Nawab
4. Murshid Quli Khan

Solution :
The correct answer is **option 1** i.e. **Siraj Ud Daulah.**

Alivardi Khan died in 1756, and Siraj ud-Daulah succeeded him as Nawab of Bengal. He was Bengal's final autonomous Nawab. The initial Nawab of Bengal was Murshid Quli Khan. As a result of British influence, Mir Jafar was the first Nawab of Bengal. From 1740 to 1756, Alivardi Khan ruled Bengal as Nawab.

Question 39 :
An early temple at Bhitargaon, Uttar Pradesh was built about 1500 years ago and was made of _____.

Difficulty : Moderate   Average Time : 53 Seconds

Options :

1. wood

2. mud brick

3. clay and thatch

4. baked bricka

Solution :
The correct answer is **option 4** i.e. **baked bricks**

A terracotta panel fronts the terraced brick edifice that houses the Bhitargaon Temple in Kanpur, Uttar Pradesh. The oldest terracotta Hindu shrine with a roof and a high Sikhara in the nagara style was constructed in the 6th century under the Gupta Empire, however, its upper chamber did experience some damage in the 18th century.

The architecture of the Bhitargaon Temple -

1. One of the earliest use of a semi-circular entryway can be seen at the entrance to the sanctum.
2. This was known as the "Hindu arch," which was unique to India, according to Alexander Cunningham, the first director general of the Archaeological Survey of India (1871).
3. The inner sanctum of the temple (garbha griha) is topped with a towering, pyramidal spire called a shikhara. This shikhara evolved into a defining element of Indian Nagara temple architecture.
4. Terracotta statues of gods and goddesses, including Shiva, Parvati, Ganesha, and Vishnu, are placed on panels and spaced apart by decorative pilasters, which are rectangular columns that protrude just over the wall.

Cunningham asserted that the temple was likely a Vishnu shrine due to the Varaha avatar at the back of it.

Question 40 :
Which of the following is a famous folk dance of Odisha?

Difficulty : Moderate

Average Time : 89 Seconds

Options :

1. Birha

2. Ghoomar

3. Kalbelia

4. Rangabati

Solution :
The correct answer is **option 4** i.e. **Rangabati.**

A well-known folk dance from Odisha is rangabati. "Rangabati" is arguably the most well-known recorded song in Sambalpuri/Odiya. Jitendra Haripal, a 2017 Padma Shri laureate, is the male singer of the song. The song was first created in the middle of the 1970s for All India Radio.

Additional information-

Birha	It is an ethnic Bhojpuri folk genre of **Uttar Pradesh, Bihar, and Jharkhand** in India.
Ghoomar	The popular Ghoomar Dance in Rajasthan India is known to be the characteristic dance of the **Bhil tribe**
Kalbelia	The Kalbelia Community in Rajasthan primarily performs the folk dance known as Kalbelia.

Question 41 :

Which theory discusses the relationship between ligand bonding and degradation of d orbitals in metal complexes and the geometry of metal complexes and the splitting of d orbitals?

Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. Crystal field theory (CFT)

2. Ligand field theory (LFT)

3. Valence bond theory (VBT)

4. Molecular orbital theory (MOT)

Solution :

The correct answer is **option 1** i.e. **Crystal field theory (CFT)**

Crystal field theory (CFT)	It illustrates how the presence of ligands in transition metal complexes causes the breaking of orbital degeneracy. The strength of the metal-ligand bonds is qualitatively described by CFT. The energy of the system changes depending on how strong the metal-ligand connections are. This could result in both a change in color and magnetic characteristics. John Hasbrouck van Vleck and Hans Bethe created this notion.

CFT octahedral complexes	A positively charged metal ion interacts electrostatically with six negatively charged ligands or with the negative ends of dipoles connected to the six ligands to produce an octahedral metal complex, according to CFT. The ligands also interact electrostatically with one another.

Splitting of the Crystal Field in the Octahedral Complex

1. We detect repulsion between d orbital electrons and ligand electrons in the instance of an octahedral coordination combination with six ligands encircling the metal atom/ion.
2. As they point in the direction of the axes along the ligand, the $d_{x^2-y^2}$ and d_{z^2} orbitals are more susceptible to this repulsion.
3. They, therefore, have more energy than is typical in the spherical crystal field.
4. The repulsions experienced by d_{xy}, d_{yz}, and d_{xz} orbitals are lower since they are oriented between the axes.
5. As a result, the energy of these three orbitals is lower than the mean energy of the spherical crystal field.

Two energy levels result from the repulsions in the octahedral coordination compound:

- t_{2g}– set of three orbitals (d_{xy}, d_{yz}, and d_{xz}) with lower energy
- e_g – set of two orbitals ($d_{x^2-y^2}$ and d_{z^2}) with higher energy

Question 42 :
The West Bengal government has launched the 'Paray Shikshalaya' programme. This initiative supports _____.

Difficulty : Moderate   **Average Time : 119 Seconds**

Options :

1. open air classroom

2. financial assistance for girl child

3. blackboard distribution in every school

higher education for class 10th students

Solution :

The correct answer is **option 1** i.e. **open-air classroom.**

- **Open-air classroom called Paray Shikshalaya**. The West Bengal State Government has introduced it. Students in pre-primary and elementary grades can now enroll in the Paray Shikshalaya.
- The plan stipulates that pupils in grades 1 through 5 will get an elementary education. On-site instruction will be used for the classes. Extracurricular activities will be promoted to the students. Mid-day meals will be provided.

Question 43 :

Which Indian musician performed 'Raga For Peace' at the 2014 Nobel Peace Prize Concert in Oslo?

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

Options :

1. Bahadur Khan

2. Amjad Ali Khan

3. Buddhadev Das Gupta

4. Satyaki Banerjee

Solution :

The correct answer is **option 2** i.e. **Amjad Ali Khan.**

- After India's Kailash Satyarthi and Pakistan's Malala Yousafzai received the renowned prize, sarod master Amjad Ali Khan and his sons Amaan and Ayaan performed at the Nobel Peace Prize Concert in Norway city where the ceremony took place.
- With a special "Raga For Peace" written for the occasion, the group promoted a message of peace, harmony, and nonviolence. After Malala and Satyarthi were honored, Amjad Ali, Amaan, and Ayaan performed their **"Raga for Peace" on stage.**
- The Nobel Peace Prize Concert takes place in Norway's capital city every year and brings together a large number of gifted performers from around the globe to honor the recipient.

Question 44 :

Who has been appointed as the chairman of the Defence Research and Development Organisation in August 2022?

Difficulty : Moderate

Average Time : 68 Seconds

Options :

1. Rajiv bahl

2. Anil Chouhan

3. Samir V Kamat

4. Ranjit Rath

Solution :

The correct answer is **option 3** i.e. **Samir V Kamat.**

> **Dr. Samir V. Kamat**, a seasoned scientist, has been chosen to lead the Defence Research and Development Organisation (DRDO) on 26th Aug 2022.
>
> - He succeeds Dr. G Satheesh Reddy, who will take over as the Union Defence Minister's scientific advisor.
> - Dr. Samir V. Kamat previously served as the DRDO's Director General of Naval Systems & Materials since 2017.

Question 45 :

An undifferentiated layer, _____, is present in between the ectoderm and the endoderm.

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Coeliea

2. Acoelomea

Ectinoglea

4. Mesoglea

Solution :

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

- **Mesoglea -** Located between the ectoderm and endoderm layers is a tissue that resembles jelly. To support the organism, mesoglea acts as a skeleton. For cell attachment, mesoglea acts as a substrate. Due to its elastic qualities, mesoglea assists in recovering the shape after deformation.
- It can be discovered in the bodies of coelenterates, sponges, and cnidarians.

Question 46 :

Developing place of settlement is called _____ .

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

Options :

1. Home

2. Site

3. Plain

4. Shelter

Solution :

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

Home	A home, or domicile, is a space used as a permanent or semi-permanent residence for one or many humans, and sometimes various companion animals.

Site	The precise position of a structure or group of structures, whether existing or planned (such as a structure, a town, or a monument): a plot of land that a structure is on or will be on. the location, setting, or center of an action or event.
Plain	A plain, often called flatland, is a flat area of land that is mostly devoid of trees and normally does not vary significantly in height. Lowlands in valleys or at the foot of mountains, coastal plains, and plateaus or uplands are all examples of plains.
Shelter	A shelter is **a small building or covered place which is made to protect people from bad weather or danger**

Question 47 :

Which of the following is caused by exogenic force?

Difficulty : Moderate   **Average Time : 80 Seconds**

Options :

1. Erosion

2. Landslide

3. Earthquake

4. Volcano

Solution :

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

What are the exogenic forces?

- Exogenic refers to exterior activities and occurrences that take place on or above the earth's surface. Exogenic processes include impacts from comets and meteoroids, the moon's tidal force, and solar radiation.

Question 48 :

How many times has India hosted the ICC Men's Cricket World Cup (One Day)?

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

Options :

2

2. 1

3. 4

4. 3

Solution :

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

Together with Bangladesh, Pakistan, and Sri Lanka, India has co-hosted **three** ICC cricket world championships.

1. India and Pakistan co-hosted this event in 1987. it was the first time the world cup had been held in Asia. Australia won, beating England for the first time.
2. India, Pakistan, and Sri Lanka organised the 1996 edition. It was won for the first time by Sri Lanka, who defeated Australia.
3. Bangladesh, Sri Lanka, and India hosted in 2011. India triumphed over Sri Lanka to claim victory.
4. Another world cup will be held in India in 2023. The competition will for the first time be contested entirely in India.

Question 49 :
The first match of IPL 2022 was played in_____.

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

Options :

1. Bengaluru

2. Mumbai

3. Kolkata

4. Lucknow

Solution :

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

- From 26 March 2022 to 29 May 2022, the 15th edition of IPL tournament was held. All of the matches for the tournament's group stage were held in the state of Maharashtra at Mumbai, Navi Mumbai, and Pune.

Additional information

The first match played on 26 march 2022 in wankhede stadium,Mumbai between the teams CSK and KKR.In which KKR won by 6 wickets.

- Gujarat Titans, under Hardik Pandya won the IPL 2022.
- Ahmedabad Lions & Lucknow Nawabs were the two new teams who joined Indian Premier League 15 in that season.

Question 50 :

In India initially HYVP was implemented in about how much area?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 5 million hectares
2. 3 million hectares
3. 4 million hectares
4. 2 million hectares

Solution :

The correct answer is **option 4** i.e. **2 million hectares**

In order to achieve food self-sufficiency by 1970–1971, the High Yielding Variety Programme (HYVP) was introduced in the Kharif of 1966–1967. The main goal of the programme was to boost crop productivity by using the most recent crop input varieties.

High yielding Variety programme -

- This programme from the fourth five-year plan was a significant advancement and a watershed in India's history of agricultural development.
- The programme was successful in the areas of the nation that produce wheat, and it also had some success with other crops like rice.
- The High Yield Varieties Programme (HYVP) was initially only available for five crops: Bajra, Jawar, Rice, Maize, and Wheat.

The High Yielding Variety Programme introduced-

- High-yielding seed varieties
- use of fertilisers has increased.
- greater irrigation.

The Green Revolution in these three things put together.

Question 51 :

Which of the following greenhouse gases is most abundant in the atmosphere?

Difficulty : Moderate   Average Time : 76 Seconds

Options :

1. Nitrous Oxide

2. Water Vapour

3. Methane

4. Carbon Oxide

Solution :

The correct answer is **option 2** i.e. **Water Vapour**

Water vapor is the most abundant greenhouse gas in the atmosphere.

What are greenhouse gases?

Carbon dioxide (CO2), methane (CH4), nitrous oxide (N2O), ozone (O3), and fluorinated gases are examples of greenhouse gases. The sun's light can reach Earth's surface by greenhouse gases, which then trap the heat that is reflected back from the surface inside Earth's atmosphere.

- The second most abundant greenhouse gas is carbon dioxide.
- After carbon dioxide (CO2), methane is the second most prevalent GHG produced by humans and makes for roughly 20% of world emissions. Methane has a heat-trapping capacity more than 25 times greater than carbon dioxide.
- After methane and carbon dioxide, nitrous oxide, sometimes referred to as "laughing gas," is the most significant greenhouse gas. It also poses the greatest damage to the ozone layer due to human activity.

Question 52 :

Who among the following was the best-known Chahamana ruler?

Difficulty : Moderate   Average Time : 73 Seconds

Options :

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    Prithviraja III

2. Vigraharaja II

3. Prithviraja I

4. Vasudeva

Solution :

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

The most well-known Chahamana king was Prithviraj III (1168–1192), who in 1191 at the first battle of Tarrain routed an Afghan sultan Muhammad Ghori and freed him to return to Afghanistan.

ABOUT CHAHAMANA DYNASTY-

- Vasudeva Chauhan established the Chauhan dynasty around 551 AD, according to bijolia inscriptions.
- The Chahamanas ruled the region between Delhi and Ajmer. They were also known as the Chauhans.
- The Chauhan dynasty's outstanding leader was Ajayaraja. In 1113, while Ajmer was still known as Ajyameru, he founded the city. It became his kingdom's capital.He was the Chauhans' first king.
- The Chauhan dynasty was moved to Ranthambhor after the second battle of Tarain claimed the lives of all its influential kings. The Chauhan dynasty was ended when Ala-ud-din Khilji conquered Ranthambhore in 1302 AD.

Question 53 :

In which year was the Indian Parliamentary Group established?

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

Options :

1. 1950

2. 1949

3. 1948

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1951

Solution :

The correct answer is **option 2** i.e. **1949**

- Members of the Indian Parliament who are now serving or have served in the past are eligible to join the Indian Parliamentary Group, which is an independent organisation. Its president by default is the Lok Sabha's Speaker.
- A Motion passed by the Constituent Assembly on August 16, 1948, led to its founding in 1949.
- The President, the two Houses known as the Council of States (Rajya Sabha) and the House of the People (Lok Sabha), and the Union's legislative body are collectively referred to as Parliament.

Question 54 :

The government of India initiated the comprehensive family planning programme in the year _____.

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

Options :

1. 1960

2. 1991

3. 1952

4. 1982

Solution :

The correct answer is **option 3** i.e. **1952**

1. The Indian government launched the comprehensive family planning system, also known as the National System for Family Planning, in 1952. India was the first nation in the world to implement a statewide version of such a scheme.

The main objectives of this initiative are to raise public awareness of various elements of reproduction and to provide resources and assistance for developing a society that is healthy in terms of reproduction.

Question 55 :

Which of the following revolts was led by Kanhu and Sidhu?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Bheel Revolt

2. Khasi Revolt

3. Munda Revolt

4. Santhal Revolt

Solution :

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

From June 30, 1855, through June 30, 1856, the Santhal Revolt occurred. Sidhu and Kanhu Murmu, two leaders of the Santal rebels, gathered about 60,000 Santhals and proclaimed an uprising against the East India Company.A tribe called Santhals is mainly found in the state of Jharkhand. This was the country of India's first peasant uprising. The establishment of the Permanent Land Settlement in 1793 can be blamed for the uprising.

Reason of the rebellion-

- They were the settlers in Bihar's Rajmahal Hills who were farmers. British looked to them to increase their agricultural revenue.
- Santhals consented to destroy woods so they might engage in established agriculture. Many territories were designated as Damin-i-Koh or Santal Pargana in 1832.
- However, British exploitation gradually increased to the point where it gave birth to the Santhal Rebellion.

Additional information-

Khasi revoltà¥¤	In opposition to a proposed British route through the region, the Khasi uprising took place in 1833 in the region between the Khasi and Jaintia Hills. Tirot Sing Syiem was in charge of the uprising.
Bheel revolt	One of the first uprisings by a tribe in the nation was the Bhil insurrection of 1818. The East India Company's ruthless treatment of the Bhils while denying them their ancient forest rights and utilising them as slave labour was the cause of the insurrection.
Munda revolt	The most well-known tribal uprising movement in the Indian subcontinent during the 19th century was the Munda uprising. In the years 1899–1900, Birsa Munda served as the movement's coordinator in the area south of Ranchi.He requested that rent and taxes no longer be paid to east India company. He also rose to become the people's spiritual leader.

Question 56 :

Identify an example of diploblastic animals.

Difficulty : Moderate

Average Time : 123 Seconds

Options :

1. Platyhelminthes

2. Arachnids

3. Chordates

4. Coelenterates

Solution :
The correct answer is **option 4** i.e. **Coelenterates**

What is called diploblastic?	• Diploblastic animals are those whose cells are organised into the exterior ectoderm and internal endoderm of two embryonic layers. A diploblastic example is a coelenterate. Between the ectoderm and the endoderm is a layer of undifferentiated tissue called the mesoglea is present. • In diploblastic animals, mesoderm is absent.
Phylum with diploblastic animals.	• Animals included in phylum Cnidaria and Ctenophora are diploblastic animals.

Additional information-

1. **Platyhelminthes** - Because of its three germ layers, endoderm, ectoderm, and mesoderm, which are found in all

multicellular creatures with the exception of sponges and cnidarians, platyhelminthes is regarded as being triploblastic.

2. **Archanida** - The subphylum Chelicerata contains a family of joint-legged invertebrate organisms known as arthropods called Arachnida. Arthropods are likewise triploblastic since they contain three germinal cell layers. Crustaceans (shrimp, lobster and crab), Arachnids (mites, spiders and scorpions), and Insects (butterflies, beetles, flies, ants and cockroaches) are a few examples of these.

3. **Chordates** - Animals called chordates, which have three embryonic layers in their bodies—the outside ectoderm, the inner endoderm, and the middle mesoderm—are called triploblastic. In addition, chordates have a dorsal nerve cord and notochord and are coelomates.

Question 57 :

After interchanging the given two numbers and two signs what will be the values of equations (I) and (II) respectively? × and ÷, 7 and 9 I. 8 × 3 ÷ 6 + 9 − 7 II. 9 − 7 × 1 + 6 ÷ 3

Difficulty : Moderate   **Average Time : 105 Seconds**

Options :

1. 0, 8

2. 14, 16

3. 6, 9

4. 10, 11

Solution :

The correct answer is **option 2** i.e. **14, 16.**

Given equation:

I. 8 × 3 ÷ 6 + 9 − 7

II. 9 − 7 × 1 + 6 ÷ 3

Given conditions: × and ÷, 7 and 9

I. 8 × 3 ÷ 6 + 9 − 7

After interchanging the expression becomes:

= 8 ÷ 3 × 6 + 7 − 9

= 14

II. $9 - 7 \times 1 + 6 \div 3$

After interchanging the expression becomes:

= $7 - 9 \div 1 + 6 \times 3$

= $7 - 9 + 6 \times 3$

= $7 - 9 + 18$

= $-2 + 18$

= 16

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

Question 58 :
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 : 80 Seconds**

Options :
1. 12 – 145
2. 16 – 257
3. 14 – 193
4. 10 –101

Solution :
The correct answer is **option 3** i.e. **14 – 193.**

The logic used here is:

$(\text{1st number})^2 + 1 = \text{2nd number}$

Option 1: 12 – 145

$12^2 + 1 = 144 + 1 = 145$

This follows the logic.

Option 2: 16 – 257

$16^2 + 1 = 256 + 1 = 257$

This follows the logic.

Option 3: 14 – 193

$14^2 + 1 = 196 + 1 = 197$

This does not follow the logic.

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

Question 59 :
A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
QML, PRC, OWT, NBK, ?

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

Options :

1. GMR
2. MGB
3. MBG
4. GQR

Solution :
The correct answer is **option 2** i.e. **MGB.**

Given series: QML, PRC, OWT, NBK,?

The series follows this pattern:

QML, PRC

Q - 1 = P

M + 5 = R

L - 9 = C

Similarly;

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NBK,?

N - 1 = M

B + 5 = G

K - 9 = B

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

Question 60 :
By interchanging the given two signs which of the following equation will be correct? × and +

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 7 × 8 ÷ 9 + 18 − 11 = 16

2. 24 − 8 − 5 × 5 + 3 = 14

3. 5 × 10 − 15 + 20 ÷ 25 = 8

4. 24 × 8 + 6 ÷ 3 − 18 = 22

Solution :
The correct answer is **option 4** i.e. **24 × 8 + 6 ÷ 3 − 18 = 22.**

Given conditions: × and +

Option 1: 7 × 8 ÷ 9 + 18 − 11 = 16

After interchanging the expression becomes:

= 7 + 8 ÷ 9 × 18 − 11 = 16

= 12 is not equal to 16.

Option 2: 24 − 8 − 5 × 5 + 3 = 14

After interchanging the expression becomes:

= 24 − 8 − 5 + 5 × 3 = 14

= 26 is not equal to 14.

Option 3: 5 × 10 − 15 + 20 ÷ 25 = 8

After interchanging the expression becomes:

= 5 + 10 − 15 × 20 ÷ 25 = 8

= 3 is not equal to 8.

Option 4: 24 × 8 + 6 ÷ 3 − 18 = 22

After interchanging the expression becomes:

= 24 + 8 × 6 ÷ 3 − 18 = 22

= 24 + 8 × 2 − 18

= 24 + 16 − 18

= 40 - 18

= 22 is equal to 22.

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

Question 61 :
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.
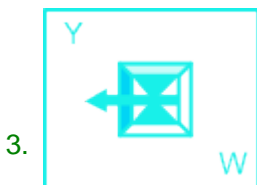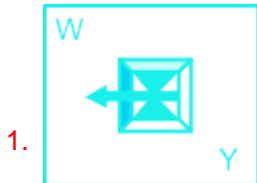
Solution :

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

The logic used here is:

1. The figure at the center of the square is rotating in a clockwise direction.

2. The letters inside the square are moving in a clockwise direction and are increased by one position in the English alphabetical series.

The series of figures is:
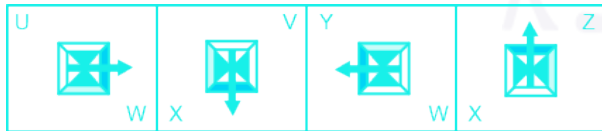
Question 62 :
After arranging the given words according to dictionary order, which word will come at 'Third' position? 1. Theory 2. Theorem 3. Theology 4. Theologue 5. Theogonic

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

Options :

1. Theologue

2. Theorem

3. Theology

4. Theogonic

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

Question 63 :

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 coats are tables. No table is a mirror. All golds are tables. Conclusions: I. Some coats being gold is a possibility. II. No gold is a mirror. III. All tables are golds. IV. No coat is a mirror.

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

Options :

1. Only Conclusion I follows

2. Only Conclusions II and III follow

3. Only Conclusions I and II follow

4. Only Conclusions I, II and IV follow

Solution :

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

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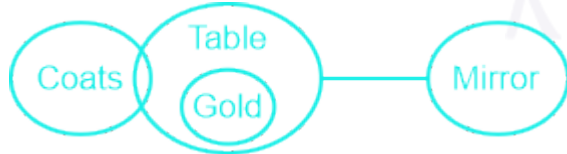
Conclusions:

I. Some coats being gold is a possibility **True** (As some coats are tables, and all golds are tables, so some coats being gold is a possibility.)

II. No gold is a mirror **True** (As all golds are tables, and no table is a mirror, so no gold is a mirror is also true.)

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

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

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

Question 64 :
In a certain code language, 'PLAYGROUND' is written as 'OKZXFQNTMC', and 'SCIENCE' is written as 'RBHDMBD, how will 'TYPEWRITER' be written in that language?

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

Options :

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RVNCUQHSDQ

2. SXODVPGRCP

3. RVNCUPGRCP

4. SXODVQHSDQ

Solution :

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

The logic used here is:

'PLAYGROUND' is written as 'OKZXFQNTMC'

P - 1 = O

L - 1 = K

A - 1 = Z

Y - 1 = X

G - 1 = F

R - 1 = Q

O - 1 = N

U - 1 = T

N - 1 = M

D - 1 = C

'SCIENCE' is written as 'RBHDMBD

S - 1 = R

C - 1 = B

I - 1 = H

E - 1 = D

N - 1 = M

C - 1 = B

E - 1 = D

Similarly;

Code for the word TYPEWRITER:

T - 1 = S

Y - 1 = X

P - 1 = O

E - 1 = D

W - 1 = V

R - 1 = Q

I - 1 = H

T - 1 = S

E - 1 = D

R - 1 = Q

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

Question 65 :
Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number. 6: 125:: 2: 1:: 5:?

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

Options :

1. 81

2. 64

3. 68

4. 72

Solution :
The correct answer is **option 2** i.e. **64.**

The logic used here is:

6: 125

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6 - 1 = 5

$5^3 = 125$

2: 1

2 - 1 = 1

$1^3 = 1$

Similarly,

5:?

5 - 1 = 4

$4^3 = 64$

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

Question 66 :
Select the correct mirror image of the given figure when the mirror is placed at MN as shown.

Difficulty : Moderate   Average Time : 45 Seconds

Options :

1. ϾΒΛΧϽΩ
2. ΩϽΧΛΒϾ
3. ϾΒΛΧϽΩ
4. ΩϽΧνΒϾ

Solution :
The correct answer is **option 1** i.e. ϾΒΛΧϽΩ

The mirror image of the question figure is shown below:

M ——— GBvX2U
       ϾΒΛΧϽΩ ——— N

Since the mirror is placed at the bottom of the question figure, the top side of the original image will be now the bottom side of the mirror image.

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

Question 67 :

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 W. II. No O is W. Conclusion: I. Some O are not P. II. All W are O.

Difficulty : Moderate

Average Time : 90 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 2** i.e. **Only conclusion I follows.**

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

Conclusions:

I. Some O are not P. **True** (As all P are W and no O is W, so, some O are not P is also true.)

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

Hence, **Only conclusion I follows.**

Question 68 :
Three different positions of the same dice are shown. Find the number on the face opposite to the face having '2'.

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. 4

2. 5

6

4. 1

Solution :

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

In the first and second dice, 3 and 6 are common. So, the remaining face will be opposite to each other. Hence, 2 is opposite to 4.

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

Question 69 :

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

Difficulty : Moderate   Average Time : 42 Seconds

Options :

1. FURNITUER (mirror text)
2. FURNITURE (mirror text)
3. FURNITURE (mirror text)
4. FURN7TURE (mirror text)

Solution :

The correct answer is **option 4** i.e. FURN7TURE (mirror text)

The mirror image of the question figure is shown below:

FURN7TURE | FURN7TURE (with P above and Q below the mirror line)

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

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

Question 70 :

Which two numbers from among the given options should be interchanged to make the given equation correct? $248 \div 4 + 184 \div (4 \times 6 - 2 \times 8) = 77$

Difficulty : Moderate   Average Time : 74 Seconds

Options :

1. 8 and 4

2. 184 and 77

3. 184 and 248

4. 4 and 6

Solution :

The correct answer is **option 3** i.e. **184 and 248.**

Given equation: $248 \div 4 + 184 \div (4 \times 6 - 2 \times 8) = 77$

Option 1: 8 and 4

After interchanging the expression becomes:

$= 248 \div 8 + 184 \div (4 \times 6 - 2 \times 4) = 77$

$= 248 \div 8 + 184 \div (24 - 8)$

$= 31 + 184 \div 16$

$= 31 + 11.5$

$= 42.50$ is not equal to 77.

Option 2: 184 and 77

After interchanging the expression becomes:

$= 248 \div 4 + 77 \div (4 \times 6 - 2 \times 8) = 184$

$= 248 \div 4 + 77 \div (24 - 16)$

$= 62 + 77 \div 8$

$= 71.625$ is not equal to 184.

Option 3: 184 and 248

After interchanging the expression becomes:

$= 184 \div 4 + 248 \div (4 \times 6 - 2 \times 8) = 77$

$= 46 + 248 \div 8$

$= 46 + 31$

= 77 is equal to 77.

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

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

Question 71 :
A # B means 'A is the sister of B'. A @ B means 'A is the son of B'. A & B means 'A is the father of B'. A % B means 'A is the mother of B'. If W & Q # T & Y @ M % K, then how is W related to K?

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

Options :
1. Mother's father
2. Brother
3. Father's father
4. Father

Solution :
The correct answer is **option 3** i.e. **Father's father.**

In the diagram shown;

Square shows males, the circle shows females, vertical lines show generations, a single horizontal line shows brothers or sisters, and double lines show a couple.
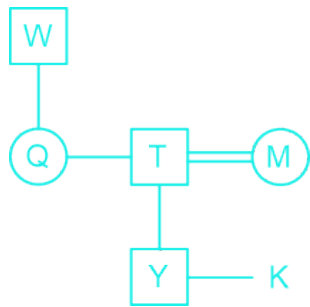
From the above tree, W is the father's father of K.

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

Question 72 :
In a certain code language, 'BOSS' is coded as '21967', and 'DEAL' is coded as '19192414'. How will 'GAIN' be coded in that language?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 16231512
2. 16241612
3. 16231612
4. 16231611

Solution :

The correct answer is **option 3** i.e. **16231612.**

The logic used here is:

'BOSS' is coded as '21967'

B + 4 = F   U (opposite) = 21(positional value of U)

O + 3 = R   I = 9

S + 2 = U   F = 6

S + 1 = T   G = 7

'DEAL' is coded as '19192414'

D + 1 = H   S = 19

E + 3 = H   S = 19

A + 2 = C   X = 24

L + 1 = M   N = 14

Similarly;

GAIN =

G + 3 = K   P = 16

A + 2 = D   W = 23

I + 1 = K   P = 16

N + 1 = O   L = 12

Code for the word GAIN = 16231612

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

Question 73 :

Study the given pattern carefully and select the number that can replace the question mark (?) in it.   (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 : 83 Seconds**

Options :

1. 23

2. 30

3. 27

4. 28

Solution :

The correct answer is **option 1** i.e. **23.**

The logic used here is:

(First term - second term) × 8 + second term = Third term

Row 1 = (15 - 11) × 8 + 11 = 43

4 × 8 + 11 = 43

32 + 11 = 43

43 = 43

Similarly,

Row 3 =

(9 - 7) × 8 + 7 = ?

2 × 8 + 7 = ?

16 + 7 = ?

23

Hence, 23 is the correct answer.

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Question 74 :

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

Difficulty : Moderate   **Average Time : 48 Seconds**

Options :

1.

2.

3.

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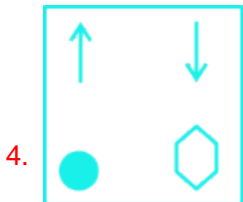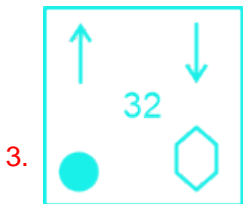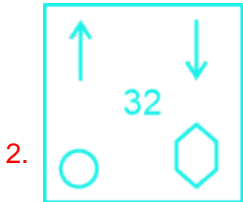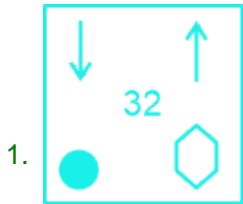
Solution :
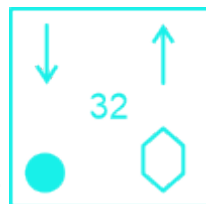
The correct answer is **option 1** i.e. .

The logic used here is:

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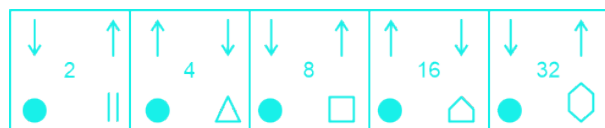
1. The number at the center of the square is increased in this manner.

2 × 2 = 4; 4 × 2 = 8; 8 × 2 = 16; 16 × 2 = 32

2. The arrow in the square are inverted upside down in the series.

3. The position of the shaded circle is fixed.

4. The number of lines at the right-hand side corner of the square is increased by one.

The series of figures is:
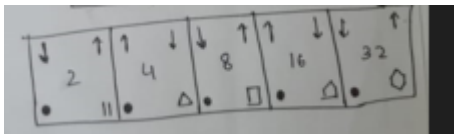
Question 75 :
Select the set in which the numbers are related in the same way as the numbers of the following set. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits.) (5, 41, 4) (2, 68, 8)

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

Options :

1. (6, 100, 8)

2. (5, 18, 4)

3. (5, 100, 4)

4. (4, 49, 3)

Solution :
The correct answer is **option 1** i.e. **(6, 100, 8).**

The logic used here is:

(5, 41, 4)

$5^2 + 4^2 = 25 + 16 = 41$

(2, 68, 8)

$2^2 + 8^2 = 4 + 64 = 68$

Similarly,

(6, 100, 8)

$6^2 + 8^2 = 36 + 64 = 100$

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

Question 76 :
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.) Ant: Antling:: Deer:?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. Pup

2. Fawn

3. Cub

4. Foal

Solution :

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

The logic used here is:

Ant: Antling

The baby ant is called an antling.

Similarly,

Deer:?

The baby deer is called a fawn.

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

Question 77 :
Which of the following numbers will replace the question mark (?) in the given series? 97, 131, 165, 199, 233,?

Difficulty : Moderate

Average Time : 44 Seconds

Options :
1. 260

273

3. 251

4. 267

Solution :

The correct answer is **option 4** i.e. **267.**

Given series: 97, 131, 165, 199, 233,?

The series follows this pattern:

97 + 34 = 131

131 + 34 = 165

165 + 34 = 199

199 + 34 = 233

233 + 34 = 267

So, the next term in the series is **267.**

Question 78 :
If K ÷ L means that K is the mother of L, K – L means that K is the father of L, K × L means that K is the sister of L. Then which of the following expression shows that P is the paternal grandmother of R?

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

Options :

1. P ÷ Q × R

2. R – Q ÷ P

3. P ÷ Q – R

4. Q ÷ P – R

Solution :

The correct answer is **option 3** i.e. **P ÷ Q – 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: P ÷ Q × R
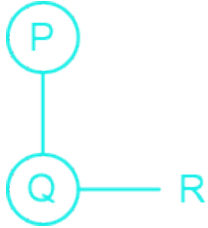
From the above tree, P is the mother of R.

Option 2: R – Q ÷ P

From the above tree, P is the grandson/granddaughter of R.

Option 3: P ÷ Q – R

From the above tree, P is the paternal grandmother of R.

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

Question 79 :

Which of the following letter clusters will replace the question mark (?) in the given series? HFK, KHM, ?, QLQ, TNS

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

Options :

   NJO

2. OKN

3. MJN

4. MKP

Solution :

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

Given series: HFK, KHM, ?, QLQ, TNS

The series follows this pattern:

HFK, KHM

H + 3 = K

F + 2 = H

K + 2 = M

Similarly;

KHM,?

K + 3 = N

H + 2 = J

M + 2 = O

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

Question 80 :
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 : 51 Seconds

Options :

1. YNUF

2. CRYB

3. ATRE

DSZA

Solution :

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

The logic used here is:

Add the positional value of the third and last letter to get 27.

Option 1: YNUF

U = 21, F = 6

21 + 6 = 27

This follows the logic.

Option 2: CRYB

Y = 25, B = 2

= 25 + 2 = 27

This follows the logic.

Option 3: ATRE

R = 18, E = 5

18 + 5 = 23

This does not follow the logic.

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

Question 81 :
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.) Rice: Grain:: Lentils:?

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. Pulses

2. Sprouts

Cereal

4. Starch

Solution :

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

The logic used here is:

Rice: Grain

Rice is a type of grain.

Similarly,

Lentils:?

Lentils are a type of pulse.

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

Question 82 :
Study the given graph and answer the following question. The number of lecturers recruited in state A in the year 2017 was what percentage of the number of lecturers recruited in state B in the year 2019? (Correct to 2 decimal places)

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

Options :
1. 40.50%

2. 36.25%

3. 45.45%

4. 56.23%

Solution :

The correct answer is **option 3** i.e. **45.45%.**

The number of lecturers recruited in state A in the year 2017 = 1000

The number of lecturers recruited in state B in the year 2019 = 2200

Required percentage = 1000/2200 × 100 = 45.45%

Question 83 :
A cap having a marked price ₹90 is sold for ₹68. What is the percentage rate of discount (correct up to two decimal

places)?

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. 24.44%

2. 25.37%

3. 22.00%

4. 23.22%

Solution :

The correct answer is **option 1** i.e. **24.44%.**

Marked price = 90

SP = 68

Discount percentage = (90 - 68)/90 × 100 = 24.44%

Question 84 :

If (Delta ABCpproxDelta QRP,rac{ar(Delta ABC)}{AR(Delta QRP)})(=rac{9}{4}), AB = 18 cm, BC = 15 cm, then the length of PR is:

Difficulty : Moderate

Average Time : 37 Seconds

Options :

1. 16 cm

2. 14 cm

3. 10 cm

4. 12 cm

Solution :

The correct answer is **option 3** i.e. **10 cm.**

We have given in the question,

$\Delta ABC\approx\Delta QRP,\frac{ar(\Delta ABC)}{AR(\Delta QRP)}$

Area of triangle ABC/Area of triangle QRP = BC^2/PR^2

$9/4 = 225/PR^2$

$PR^2 = 100$

PR = 10 cm

Question 85 :
If $(x + \frac{1}{2x} = 3,)$ then evaluate $(8x^3 + \frac{1}{x^3})$

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 212

2. 216

3. 180

4. 196

Solution :

The correct answer is **option 3** i.e. **180.**

$(x + \frac{1}{2x}=3,)$

Multiplying by 2 in the above equation

2x + 1/x = 6

cube on both sides

$8x^3 + 1/x^3 = 216 - 36 =$ **180**

Question 86 :
$(\sqrt{\frac{1+sinA}{1-sinA}}=)$_____,

Difficulty : Moderate

Average Time : 38 Seconds

Options :

1. cosecA - cotA

2. secA - tanA

3. secA + tanA

secA

Solution :

The correct answer is **option 3** i.e. **secA + tanA.**

$\sqrt{\frac{1+sinA}{1-sinA}}$

$= \sqrt{\frac{1+sinA}{1-sinA}\times\frac{1+sinA}{1+sinA}}$

$= \sqrt{\frac{(1+SinA)^2}{1-Sin^2A}}$

$= \sqrt{\frac{(1+SinA)^2}{Cos^2A}}$

$= 1/CosA + SinA/CosA$

$= $ **SecA + tanA**

Question 87 :

The table given below shows the earnings of two persons on five different days.   Earnings Days P Q Monday 105 150 Tuesday 96 110 Wednesday 65 122 Thursday 115 106 Friday 130 68 What is the ratio of total earnings of P to the total earnings of Q?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. 511 : 556

2. 531 : 331

3. 556 : 511

4. 331 : 441

Solution :

The correct answer is **option 1** i.e. **511 : 556.**

The ratio of total earnings of P = 105 + 96 + 65 + 115 + 130 = 511

the ratio of total earnings of Q = 150 + 110 + 122 + 106 + 68 = 556

Required ratio = 511 : 556

Question 88 :

Five different companies, A, B, C, D and E, make robotic toys. The total number of robotic toys produced by these five companies is 8,00,000. The cost of production of each robotic toy is â¹5,000. The distribution of the total production is given by the following pie chart. What is the total cost of production of the given item by companies A and E together?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Rs.190 crores
2. Rs. 85 crores
3. Rs.96 crores
4. Rs.140 crores

Solution :

The correct answer is **option 4** i.e. **Rs.140 crores.**

The total cost of production of the given item by companies A and E together =

800000/360 × 126 × 5000 = 140 Crores

Question 89 :
If △ABC ~ △DEF, and BC = 4 cm, EF = 5 cm and the area of triangle ABC = 80 cm2, then the area of the triangle DEF is:

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. 169 cm^2
2. 80 cm^2
3. 144 cm^2
4. 125 cm^2

Solution :

The correct answer is **option 4** i.e. **125 cm^2.**

We have given in the question,

In △ABC ~ △DEF

BC = 4 cm, EF = 5 cm and the area of triangle ABC = 80 cm^2

$(BC/EF)^2$ = Area of ABC/Area of DEF

16/25 = 80/x

Page No: 73

$x = 125$ cm^2

Question 90 :

A certain sum amounts to ₹3,640 in 2 years and ₹4,060 in 8 years at simple interest. Find the approximate rate percentage per annum?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 4%

2. 2%

3. 1%

4. 3%

Solution :

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

A certain sum amounts to ₹3,640 in 2 years and ₹4,060 in 8 years at simple interest.

So, SI in 6 years = 4060 - 3640 = 420

SI in 2 year = 420/6 × 2 = 140

Amount = P + SI

So, in first two years,

3640 = P + 140

P = 3500

140 = (3500 × R × 2)/100

140 = 70R

R = **2%**

Question 91 :

If 8cot (heta=6), then the value of (rac{sin heta+cos heta}{sin heta-cos heta}) is:

Difficulty : Moderate

Average Time : 47 Seconds

Options :

   12

2. 7

3. 2

4. 5

Solution :

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

 8cot $\theta=6$

cot = 3/4

Cos/Sin = 3/4

$\frac{\sin\theta+\cos\theta}{\sin\theta-\cos\theta}$ = (4 + 3)/(4 - 3) = 7

Question 92 :

Three cubes of equal volume are joined end to end. Find the surface area of the resulting cuboid if the diagonal of the cube is (6sqrt{3 } cm)

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

Options :

1. 509 cm^2

2. 504 cm^2

3. 516 cm^2

4. 512 cm^2

Solution :

The correct answer is **option 2** i.e. **504 cm^2.**

Diagonal of the cube $(a\sqrt{3 } cm)=$ $(6\sqrt{3 } cm)$

a = 6 cm

So, the length of the cuboid = 3 × 6 = 18

Breadth of the cuboid = 6 cm

Height of the cuboid = 6 cm

Surface area of the cuboid = 2(lb + bh + lh)

 = 2(108 + 36 + 108) = 2 × 252 = **504**

Question 93 :

If tan A = (rac{5}{12}), then the value of cos A - _____.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. $\frac{12}{5}$

2. $\frac{13}{5}$

3. $\frac{5}{13}$

4. $\frac{12}{13}$

Solution :

The correct answer is **option 4** i.e. $\frac{12}{13}$.

 tan A = $\frac{5}{12}$

tan A = Perpendicular/Base = 5/12

$(\text{Hypotenuse})^2 = (\text{Perpendicular})^2 + (\text{Base})^2$

Hypotenuse = $\sqrt{5^2+12^2}=13$

Cos A = Base/Hypotenuse = **12/13**

Question 94 :

The LCM of the two numbers is 4104 and the HCF is 9. If one of the numbers is 171, find the other.

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 218

2. 215

3. 220

4. 216

Solution :

The correct answer is **option 4** i.e. **216.**

LCM × HCF = First number × Second number

4104 × 9 = 171 × Second number

Second number = 216

Question 95 :
If x2 - 2xy = 84 and x - y = -10, then the value of y is:

Difficulty : Moderate

Average Time : 37 Seconds

Options :

1. 2

2. 1

3. 4

4. 3

Solution :
The correct answer is **option 3** i.e. **4.**

We haven given in the question,

x^2 - 2xy = 84....(1)

x - y = -10

x = y - 10

Put the value of x in equation 1.

$(y - 10)^2$ - 2(y - 10)y = 84

y^2 + 100 - 20y - $2y^2$ + 20y = 84

$-y^2$ = -16

y = 4

Question 96 :
Prasad goes 96 kilometers on a bike at a speed of 16 km/h, 124 kilometers at 31 km/h in a car, and 105 kilometers at 7 km/h in a horsecart. Find his average speed for the entire distance travelled.

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. 16 km/h
2. 13 km/h
3. 17 km/h
4. 11 km/h

Solution :

The correct answer is **option 2** i.e. **13 km/h.**

Average speed = Total distance/total time

$= \dfrac{96+124+105}{\frac{96}{16} + \frac{124}{31}+\frac{105}{7}}$

= 325/25

= **13 km/h**

Question 97 :

Apples were purchased at 100 for Rs.350 and sold at Rs.48 a dozen. What is the profit or loss percentage?

Difficulty : Moderate

Average Time : 41 Seconds

Options :

1. Profit $14\frac{2}{7}$%
2. Loss $18\frac{3}{5}$%
3. Loss 10%
4. Profit 12%

Solution :

The correct answer is **option 1** i.e. **Profit $14\frac{2}{7}$%**

We have given,

CP of the 100 apple = 350

SP of 12 apple = 48

Quantity : Rs

6 × (100 : 350)

50 × (12 : 48)

=

CP = 600 : 2100

SP = 600 : 2400

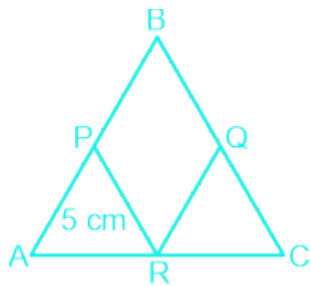Profit percentage = (2400 - 2100)/2100 × 100 = 300/21 = $14\frac{2}{7}$%

Question 98 :
In a △ABC, AB = BC, and P, Q, and R are the mid points of the sides AB, BC, and AC, respectively. If PR = 5 cm, then find the length of QR.

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

Options :

1. 5 cm

2. 2 cm

3. 7 cm

4. 4 cm

Solution :
The correct answer is **option 1** i.e. **5 cm.**

We have given in the question,

In triangle ABC By using mid point theorem

 AB = BC

PR = 1/2 BC

QR = 1/2 AB

So, PR = QR

So PR = QR = 5 cm

Question 99 :

Two numbers are in the ratio of 5 : 7. If 6 be added to each, the ratio becomes 3 : 4. Find the numbers.

Difficulty : Moderate   Average Time : 49 Seconds

Options :

1. 30, 42

2. 55, 88

3. 10, 16

4. 25, 40

Solution :

The correct answer is **option 1** i.e. **30, 42.**

Let's assume the ratio of the two numbers = 5x : 7x

Now, according to the question

(5x + 6)/(7x + 6) = 3/4

20x + 24 = 21x + 18

x = 6

So, the numbers = 30, 42

Question 100 :

Three circles of radius 4 cm are kept touching each other. The string is tightly tied around these three circles. What is the length of the string?

Difficulty : Moderate   Average Time : 43 Seconds
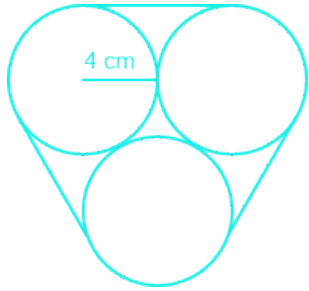
Options :

1. 24 + 8 cm

2. 24 + 16 cm

3. 32 + 16 cm

24 + 18 cm

Solution :

The correct answer is **option 1** i.e. **(24 + 8) Cm.**

Radius of the each circle = 4 cm

Length of the string = 2r + 6r

= 2 × 4 + 6 × 4

= (24 + 8) Cm

Ssc Cgl Tier I Previous Year Question Paper Analysis

The analysis of Ssc Cgl Tier I Previous Year Question Paper held on 2022-12-05 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 Quantitative Aptitude, 25 questions were asked from English Language, 25 questions were asked from General Awareness and 25 questions were asked from Logical Reasoning
4. 37 questions should have been skipped if you were short of time.

Ssc Cgl Tier I Previous Year Question Paper Topic Wise Weightage

Quantitative Aptitude

1. Percentage - 1
2. Data Interpretation - 3
3. Time And Work - 1

    Time Speed And Distance - 2

5. Interest - 1
6. Ratios And Proportion - 1
7. Geometry - 1
8. Trigonometry - 2
9. Mensuration - 2
10. Algebra - 3
11. Number System - 2
12. Profit And Loss - 2
13. Logarithm - 4

English Language

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

General Awareness

1. Art And Culture - 25

Logical Reasoning

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

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

Ssc Cgl Tier I Previous Year Question Paper Tips and Tricks

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

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