



Ssc Chsl Tier I Previous Year Question Paper Overview

Here, you can solve all the questions asked in Ssc Chsl Tier I Previous Year Question Paper on 2023-10-27 in the Morning Shift exam. The detailed solutions are also provided for every previous year question and some of these questions can be asked again in your Ssc Chsl Tier I exam. There are 100 questions in the exam and 60 minutes are provided for the Ssc Chsl Tier I exam. The Cutoff of the exam was 141 marks hence you should try to score at least 151 marks.

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

Question 1 :

$(\frac{\cos \theta}{\sec \theta - 1}) + (\frac{\cos \theta}{\sec \theta + 1})$ is equal to:

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. $2\sec^2$
2. $2\cot^2$
3. $2\cos^2$
4. $2\sin^2$

Solution :

The correct answer is **option 2** i.e. $2\cot^2$.

Given that

$$\begin{aligned} & \left(\frac{\cos \theta}{\sec \theta - 1} \right) + \left(\frac{\cos \theta}{\sec \theta + 1} \right) \\ & \left(\frac{\cos \theta}{\sec \theta - 1} \right) + \left(\frac{\cos \theta}{\sec \theta + 1} \right) \\ & \left(\frac{\cos \theta (\sec \theta + 1) + \cos \theta (\sec \theta - 1)}{(\sec^2 \theta - 1)} \right) \\ & \left(\frac{\cos \theta \sec \theta + \cos \theta + \cos \theta \sec \theta - \cos \theta}{(\sec^2 \theta - 1)} \right) \\ & \left(\frac{2}{\tan^2 \theta} \right) \end{aligned}$$

 $2\cot^2$ **Question 2 :**

Select the most appropriate option to substitute the underlined segment in the following sentence. With the harsh words of the boss, Srujan felt sad, but his colleague's words created insult to injury.

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. attached insult to injury
2. provoked insult to injury
3. added injury to insult
4. added insult to injury

Solution :

The correct answer is **option 4 i.e. added insult to injury**

- "created insult to injury" is the misinterpretation of the idiom.
- "added insult to injury" is an idiom which means to make a bad situation worse.
- In the context it means Srujan already felt sad due to the harsh words of the boss, and his colleague's words worsened the situation.
- **The correct sentence will be:** With the harsh words of the boss, Srujan felt sad, but his colleague's words added insult to injury.

Question 3 :

Select the option that correctly expresses the following sentence in passive voice. The child will recite the poem.

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. By child poem will be recited
2. The poem will be recited by the child.
3. The poem is recited by the child
4. The poem will recite by the child.

Solution :

The correct answer is **option 2 i.e. The poem will be recited by the child.**



The passive construction of the sentence involves switching the positions of the subject and the object and adjusting the verb accordingly.

- **Structure (Active Voice):** Subject (The child) + Will recite + Object (the poem)
- **Structure (Passive Voice):** Object (The poem) + Will be recited by + Subject (the child)
- When transforming this into the passive voice, **the object of the active sentence becomes the subject of the passive sentence**, and the **subject becomes the agent** preceded by the preposition "by."
- In this case, "**will recite**" in the active voice corresponds to "**will be recited**" in the passive voice.
- The use of "**by**" in the passive construction indicates the agent (**the child**) carrying out the action.

Question 4 :

Parts of the following sentence have been given as options. Select the option that contains an error. You need to acknowledge the itinerary and accommodation details of your journey as per the given calendar.

Difficulty : Moderate

Average Time : 86 Seconds

Options :

1. calendar
2. accommodation
3. acknowledge
4. itinary

Solution :

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

- The correct spelling is '**itinerary**'. 'itinary' is misspelt in the given context.
- **Itinerary** refers to a detailed plan or schedule of a journey, including destinations, routes and the places that you will visit.
 - Example: *Let me check the itinerary to our manali trip.*
- Corrected sentence: You need to acknowledge the itinerary and accommodation details of your journey as per the given calendar.

Question 5 :

Choose the correct meaning of the underlined word in the given sentence. When I was in Class 5, I won the first prize in extempore at my school.

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. A short piece of writing on a subject

A sports event

3. A speech delivered without prior preparation or rehearsal

4. A dramatic performance on stage

Solution :

The correct answer is **option 3 i.e. A speech delivered without prior preparation or rehearsal**

- **Extempore:** spontaneous and unscripted speech or A speech delivered without prior preparation or rehearsal.
- For example: The President's extempore remarks made his advisors nervous

Question 6 :

Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence. A. fell before me B. a carcass of an animal C. when suddenly D. my heart skipped a beat

Difficulty : Moderate

Average Time : 54 Seconds

Options :

1. BACD
2. CDBA
3. ABCD
4. DCBA

Solution :

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

Correct Sentence: My heart skipped a beat when suddenly a carcass of an animal fell before me.

- **Part D:** This phrase sets the tone and prepares the reader for an emotional or surprising moment. **It introduces the narrator's emotional response.**
- **Part C:** This transition indicates a shift in the narrative, creating anticipation for what happened next. **It signals the timing of the event.**
- **Part B:** This part introduces the key element or object of the scene, which is the carcass of an animal. **It provides the visual component to the narrative.**
- **Part A:** This phrase concludes the sentence by describing the action or event related to the carcass. **It completes the thought and gives closure to the sentence.**

Question 7 :

Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph. A) So then why are not Silicon Valley entrepreneurs clamouring to decode the



ancient wisdom? B) The failure rate in finding a new drug is as high as 95%. C) Because these once-thriving cultures are now reduced to an endangered tribe. D) According to industry data, it takes \$2.6 billion and, on average, fourteen years to develop a new drug.

Difficulty : Moderate

Average Time : 92 Seconds

Options :

1. BADC
2. DCBA
3. DBAC
4. ACDB

Solution :

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

- **Part D: This statement sets the stage** by providing information on the significant investment of time and money required in the pharmaceutical industry.
- **Part B:** Following the introduction of the development process, **this sentence adds a critical piece of information** about the high failure rate in discovering new drugs, emphasizing the challenges involved.
- **Part A:** This question logically follows the information on the challenges in the pharmaceutical industry. **It introduces the idea of** seeking alternative approaches, specifically referencing Silicon Valley entrepreneurs and their potential interest in ancient wisdom.
- **Part C:** The **concluding sentence provides context and explanation** for why Silicon Valley entrepreneurs might be interested in decoding ancient wisdom. It connects the challenges in the pharmaceutical industry with the idea of looking for unconventional solutions and highlights the endangered status of ancient cultures.

Question 8 :

Select the most appropriate synonym of the given word. Resentment

Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. Calmness
2. Happiness
3. Anger
4. Relaxation

Solution :



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

Resentment: a feeling of angry displeasure at something regarded as a wrong, insult, or injury.

The other options i.e., Calmness, Happiness, Relaxation are synonyms of Serenity, Peace.

Question 9 :

Select the option with the correct spelling that can replace the underlined word in the given sentence. Kasturi acts as a liaison between patients and staff.

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. liaision
2. laision
3. liaison
4. liaisan

Solution :

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

- The correct spelling is '**liaison**'.
- Liaison meaning: communication between two or more people or groups that work together.

Question 10 :

Select the most appropriate ANTONYM of the given word. Meagre

Difficulty : Moderate

Average Time : 37 Seconds

Options :

1. Regional
2. Racial
3. Stupid
4. Generous

Solution :

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

- **Meagre** means deficient in quantity, quality, or extent.



Generous means showing a readiness to give more of something, such as money or time or help, etc. than is usual or expected.

- The other options means:
 - Regional: connected with a particular region, localized
 - Racial: of, relating to, or based on a race
 - Stupid: not intelligent or sensible

Question 11 :

Select the most appropriate synonym for the underlined word in the following sentence. The politician's pompous rhetoric during the campaign failed to garner much support from the public.

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

1. Conciliatory
2. Benign
3. Supercilious
4. Diplomatic

Solution :

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

- **Pompous** means having or exhibiting self-importance or exaggerating sense of one's importance.
 - Example: He can sometimes sound a little pompous when he talks about acting.
- **Supercilious** means arrogant, disdainful.
- Hence, the most appropriate synonym for Pompous is Supercilious.
- The meaning of other options are:
 - Conciliatory: showing a willingness to end conflicts or disputes
 - Benign: Gentle, kind
 - Diplomatic: connected with diplomacy, skilful at dealing with people

Question 12 :

Parts of a sentence are given below in jumbled order. Select the option that arranges the parts in the correct order to form a meaningful sentence. A.In accordance with hierarchical status B.Of the services rendered C.Rewards are given D.And are not related to the economic value

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



Options :

1. . A, B, D, C
2. A, D, B, C
3. C, A, D, B
4. C, B, A, D

Solution :

The correct answer is **option 3 i.e. C, A, D, B**

- **Part C:** This part introduces the main idea that rewards are being distributed.
- **Part A:** This follows, providing information on the basis or criteria for the distribution of rewards, indicating that it is based on hierarchical status.
- **Part D:** This adds additional information, specifying that the rewards are not tied to economic value, suggesting that they are not based on monetary considerations.
- **Part B:** Finally, this part completes the sentence by explaining the reason for the rewards, indicating that they are given for the services rendered.

Question 13 :

Select the option that expresses the given sentence in positive degree of comparison. She is the dullest child in the class.

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. She is very duller in the class.
2. Dullest child in the class is she.
3. No other child in the class is as dull as she.
4. In the class of all she is dull.

Solution :

The correct answer is **option 3 i.e. No other child in the class is as dull as she.**

- The given sentence is in the **superlative** degree.
- To express it in a **positive degree**, we need to **compare** her level of dullness without acknowledging others.
- The sentence starts with "**No other child**," which sets up a negative construction. This is a common way to express

- a positive degree comparison by stating that no one else possesses the quality to a greater extent.
- The phrase "**as dull as**" is a standard construction for making positive degree comparisons.
 - **In positive degree** comparisons, we use "**as + adjective + as**" to convey equality or similarity in the quality being compared.
 - The sentence ends with "**as she.**" In comparisons, it is grammatically correct to use the subject pronoun after "**as**" rather than the object pronoun.

Question 14 :

Select the most appropriate ANTONYM of the underlined word. Wealthier countries are obligated to fulfil a commitment made in the Paris Agreement to provide \$100 billion a year in international climate finance.

Difficulty : Moderate

Average Time : 89 Seconds

Options :

1. feeble
2. drape
3. breach
4. hale

Solution :

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

- **Commitment:** a promise or firm decision to do something.
- Hence, the correct antonym is **breach** which means an act that breaks an agreement, a law, etc.
- The other options mean:
 - Feeble: weak, fragile
 - Drape: to cover somebody/something
 - Hale: strong, robust

Question 15 :

Select the most appropriate idiom for the underlined segment in the following sentence. Brave people never hide at the moment of decision

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. When the crunch comes
2. Beat the clock



A hell of time

4. Turn back the hands of time

Solution :

The correct answer is **option 1 i.e. When the crunch comes**

- The sentence suggests brave individuals don't hide in tough times or avoid taking the necessary measures when faced with challenges.
- **"When the crunch comes"**: This idiom conveys if/when a situation becomes extremely serious and a decision must be made
- **The Brave people never hide when the crunch comes.**

Question 16 :

Select the option that expresses the given sentence in active voice. French is taught to us by Miss Glenn.

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Miss Glenn taught us French.
2. Miss Glenn teach us French
3. Miss Glenn teaches us French.
4. Miss Glenn is teaching us French.

Solution :

The correct answer is **option 3 i.e. Miss Glenn teaches us French.**

- In **passive voice** constructions, the focus is on the recipient of the action rather than the doer of the action.
- **Structure:** Object (French) + Verb (is taught) + To/For Phrase (to us) + By Phrase (by Miss Glenn.
- The **active voice** version will emphasize the doer of the action, bringing "Miss Glenn" to the forefront as the one performing the action.
- **Structure:** Subject (Miss Glenn) + Verb (teaches) + Object (us) + Complement (French)
- The given statement is in passive voice. In order to convert it into active voice, doer of the action becomes the subject. The subject i.e., (Miss Glenn) is performing the action.
- Hence, the correct statement will be **"Miss Glenn teaches us French."**

Question 17 :

Select the option that will improve the underlined part of the given sentence. Adyasha would have been looked gorgeous



in ethnic apparel.

Difficulty : Moderate

Average Time : 78 Seconds

Options :

1. was looked
2. would have looked
3. had looking
4. would be looked

Solution :

The correct answer is **option 2 i.e. would have looked**

- In the given context 'would have looked' is the **past perfect form** expressing a possibility of a situation.
- The structure to form the correct sentence would be:
 - **Subject + Modal + Main Verb + Object.**
- "**been**" used in the sentence is grammatically incorrect. Because after the modal "**would have**" comes the main verb "**looked**"(past participle) to make the statement grammatically correct and meaningful.
- Hence, the correct statement would be "Adyasha would have looked gorgeous in ethnic apparel."

Question 18 :

The following sentence has been split into four segments. Identify the segment that contains a grammatical error. Babbal is / a oldest member / in our / Black Ice Club.

Difficulty : Moderate

Average Time : 67 Seconds

Options :

1. in our
2. Black Ice Club
3. Babbal is
4. a oldest member

Solution :

The correct answer is **option 4 i.e. a oldest membe**

- The article "**a**" used in "**a oldest member**" is incorrect because we don't use indefinite article "a" before the superlative adjective "oldest".
- We use "the" instead of "a" when expressing the highest degree of comparison.



Corrected Sentence: Babbal is the oldest member in our Black Ice Club.

Question 19 :

Parts of a sentence are given below in jumbled order, except the first part. Arrange the parts in the correct order to form a meaningful sentence. Such poststructuralist pronouncements... A. not only in the Anglo-American academia B. on the literature of the Third World, C. however, are a common feature of the literary theory practiced D. but also in the Third-World countries

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. ABCD
2. ADCB
3. BCAD
4. CABD

Solution :

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

- The introductory part sets the context for the sentence. It signals that the sentence will discuss poststructuralist pronouncements.
- **Part B:** This provides additional detail, specifying that the poststructuralist pronouncements are on the literature of the Third World.
- **Part C:** This part introduces the main idea that poststructuralist pronouncements are common in literary theory.
- **Part A:** This introduces a contrast, stating that these pronouncements are not limited to Anglo-American academia.
- **Part D:** This concludes the sentence by emphasizing that these pronouncements are present in Third-World countries as well, completing the thought.

Question 20 :

Select the most appropriate ANTONYM of the given word. Fundamental

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Impact
2. Neutral



Least

4. Link

Solution :

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

- **Fundamental** means **primary, crucial**.
- **Least** is the best suitable antonym which means **insufficient, deficient**.
- The meaning of the other options are as follows:
 - Impact: Influence
 - Neutral: Unbiased
 - Link: Connection

Question 21 :

Select the most appropriate homophone to fill in the blank. Even animals find it difficult to _____ the loss of their loved ones.

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. bear
2. wear
3. where
4. bare

Solution :

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

- **Bear** means to endure.
- The other options does not convey the message to form a meaningful sentence.
- The correct sentence will be **Even animals find it difficult to bear the loss of their loved ones**, which indicates that animals are just like humans, they struggle to endure the pain of the loss of their loved ones.

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. Unemployment arises from a variety of _____(1). One which is always recurring and the effects of which we have had a recent example, is the disorganisation of industry resulting from a long war; this is a serious _____ (2) admitting of no easy _____ (3) at the best of times. Again there is the unemployment which followed a marked diminution in the _____ (4) of any raw product, such as cotton; fewer hands are required in the

mills and the factories. We may call this cause of bad harvests. Similar, but more serious is the effect of changes in industry due to the invention of machinery which does more work and require _____ (5) hands. Yet another cause is strike or lockout and this is more to be deplored because such a stoppage is due to a very trivial matter, perhaps the men are working half an hour longer than what their Union permits.

Question 22 :

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

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

1. causes
2. thoughts
3. things
4. types

Solution :

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

- The word "**causes**" is used in the past tense, which is suitable in the context of the sentence.
- The other options, "thoughts," "things," or "types" do not fit the context.

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. Unemployment arises from a variety of _____(1). One which is always recurring and the effects of which we have had a recent example, is the disorganisation of industry resulting from a long war; this is a serious _____ (2) admitting of no easy _____ (3) at the best of times. Again there is the unemployment which followed a marked diminution in the _____ (4) of any raw product, such as cotton; fewer hands are required in the mills and the factories. We may call this cause of bad harvests. Similar, but more serious is the effect of changes in industry due to the invention of machinery which does more work and require _____ (5) hands. Yet another cause is strike or lockout and this is more to be deplored because such a stoppage is due to a very trivial matter, perhaps the men are working half an hour longer than what their Union permits.

Question 23 :

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

Difficulty : Moderate**Average Time : 88 Seconds****Options :**

difference

2. discussion

3. nature

4. problem

Solution :

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

- In the context, the causes of the unemployment are being referred to as **problems**.
- The other options, "difference," "discussion," or "nature," do not convey the correct sense in this context.

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. Unemployment arises from a variety of _____ (1). One which is always recurring and the effects of which we have had a recent example, is the disorganisation of industry resulting from a long war; this is a serious _____ (2) admitting of no easy _____ (3) at the best of times. Again there is the unemployment which followed a marked diminution in the _____ (4) of any raw product, such as cotton; fewer hands are required in the mills and the factories. We may call this cause of bad harvests. Similar, but more serious is the effect of changes in industry due to the invention of machinery which does more work and require _____ (5) hands. Yet another cause is strike or lockout and this is more to be deplored because such a stoppage is due to a very trivial matter, perhaps the men are working half an hour longer than what their Union permits

Question 24 :

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

Difficulty : Moderate

Average Time : 87 Seconds

Options :

1. key
2. clue
3. answer
4. solution

Solution :

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

Solution is best suitable in the context. Other options does not convey the correct sense to the context.

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. Unemployment arises from a variety of _____(1). One which is always recurring and the effects of which we have had a recent example, is the disorganisation of industry resulting from a long war; this is a serious _____ (2) admitting of no easy _____ (3) at the best of times. Again there is the unemployment which followed a marked diminution in the _____ (4) of any raw product, such as cotton; fewer hands are required in the mills and the factories. We may call this cause of bad harvests. Similar, but more serious is the effect of changes in industry due to the invention of machinery which does more work and require _____ (5) hands. Yet another cause is strike or lockout and this is more to be deplored because such a stoppage is due to a very trivial matter, perhaps the men are working half an hour longer than what their Union permits.

Question 25 :

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

Difficulty : Moderate

Average Time : 81 Seconds

Options :

1. material
2. quality
3. quantity
4. cloth

Solution :

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

- Here, the context refers to the reduction in the **quantity** of of the raw material in the factories.
- **Quantity** justifies the context appropriately.

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. Unemployment arises from a variety of _____(1). One which is always recurring and the effects of which we have had a recent example, is the disorganisation of industry resulting from a long war; this is a serious _____ (2) admitting of no easy _____ (3) at the best of times. Again there is the unemployment which followed a marked diminution in the _____ (4) of any raw product, such as cotton; fewer hands are required in the mills and the factories. We may call this cause of bad harvests. Similar, but more serious is the effect of changes in industry due to the invention of machinery which does more work and require _____ (5) hands. Yet another cause is strike or lockout and this is more to be deplored because such a stoppage is due to a very trivial matter, perhaps the men are working half an hour longer than what their Union permits.

Question 26 :



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

Difficulty : Moderate

Average Time : 84 Seconds

Options :

1. fewer
2. more
3. many
4. a lot of

Solution :

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

- In the given passage, causes of unemployment is being talked about. In the sentence containing blank (5), the example of modern machinery is taken to showcase how machines replaced human labour to a greater extent. Thus, leading to lesser/fewer workers required at farms. Hence, the correct substitute for the blank (5) would be 'fewer'.

Question 27 :

In the following number pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13-Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) (21, 66) (32, 99)

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. (25, 81)
2. (36, 112)
3. (45, 138)
4. (24, 77)

Solution :

The correct answer is **Option 1 i.e. (45, 138)**.

The logic used here is:



(21, 66)

$$21 \times 3 = 63$$

$$63 + 3 = 66$$

(32, 99)

$$32 \times 3 = 96$$

$$96 + 3 = 99$$

Similarly,

(45, 138)

$$45 \times 3 = 135$$

$$135 + 3 = 138$$

Hence, (45, 138) is the correct answer.

Question 28 :

DHJ is related to AEG in a certain way based on the English alphabetical order. In the same way, ZML is related to WJI. To which of the following is EKQ related following the same logic?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. HNT
2. DJK
3. BHN
4. QKE

Solution :

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

The logic used here is:

DHJ is related to AEG

$$D - 3 = A$$

$$H - 3 = E$$

$$J - 3 = G$$

ZML is related to WJI

$$Z - 3 = W$$

$$M - 3 = J$$

$$L - 3 = I$$

Similarly,

EKQ is related to _____

$$E - 3 = B$$

$$K - 3 = H$$

$$Q - 3 = N$$

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

Question 29 :

Select the number from among the given options that can replace the question mark (?) in the following series. 383, 381, 377, 369, 353, ?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. 325
2. 323
3. 322
4. 321

Solution :

The correct answer is **Option 4** i.e. **321**.

Given series: 383, 381, 377, 369, 353, ?

The series follows this pattern:

$$383 - 2 = 381$$

$$381 - 4 = 377$$



$$377 - 8 = 369$$

$$369 - 16 = 353$$

$$353 - 32 = 321$$

So, the next term in the series is **321**.

Question 30 :

Select the set in which the numbers are related in the same way as the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 - Operations on 13 such as adding subtracting multiplying etc to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) (12, 11, 137) (17, 21, 362)

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

1. (18, 9, 165)
2. (14, 31, 440)
3. (21, 25, 530)
4. (38, 7, 270)

Solution :

The correct answer is **Option 3** i.e. (21, 25, 530).

The logic used here is:

(12, 11, 137)

$$12 \times 11 = 132$$

$$132 + 5 = 137$$

(17, 21, 362)

$$17 \times 21 = 357$$

$$357 + 5 = 362$$

Similarly,

(21, 25, 530)

$$21 \times 25 = 525$$



$$525 + 5 = 530$$

Hence, **(21, 25, 530)** is the correct answer.

Question 31 :

In a certain code language, A + B means 'A is the father of B' A - B means 'A is the wife of B' A × B means 'A is the brother of B' A ÷ B means 'A is the mother of B' Based on the above, how is G related to K if 'G ÷ H × I - J + K'?

Difficulty : Moderate

Average Time : 57 Seconds

Options :

1. Mother's mother
2. Father's sister
3. Mother
4. Father's mother

Solution :

The correct answer is **option 1 i.e Mother's mother**

Hence, G is K's mother's mother.

Question 32 :

Select the term from the given options that can replace the question mark (?) in the given series to make it logically complete. BO 88, ?, HU 80, 76, 72

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. DS 86
2. DR 82
3. ER 84
4. ES 86

Solution :

The correct answer is **Option 3 i.e. ER 84.**

Given series: BO 88, ?, HU 80, 76, 72



The series follows this pattern:

HU 80, 78

$$H + 3 = K$$

$$U + 3 = X$$

$$80 - 4 = 76$$

Similarly;

BO 88, ?

$$B + 3 = E$$

$$O + 3 = R$$

$$88 - 4 = 84$$

So, the missing term in the series is **ER 84**.

Question 33 :

If 'A' stands for '÷', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation? $114 \text{ C } 85 \text{ A } 5 \text{ B } 4 \text{ D } 33 = ?$

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 151
2. 149
3. 138
4. 143

Solution :

The correct answer is **option 2 i.e. 149**

$$\begin{aligned} &114 + (85 \div 5) \times 4 - 33 \\ &= 114 + (17 \times 4) - 33 \\ &= (114 + 68) - 33 \\ &= 182 - 33 \end{aligned}$$



= 149

Question 34 :

The position of how many letters will remain unchanged if each letter in the word AMPLIFY is arranged in alphabetical order?

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. Three
2. two
3. four
4. one

Solution :

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

Given Word : AMPLIFY

After arranging the letters in Alphabetic order:

AFILMPY

A, L and Y remains at same position.

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





Question 35 :

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

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 
2. 
3. 
4. 

Solution :

The correct answer is option 1 i.e. .

The mirror image of the question figure is shown below:



Since the mirror is placed on the right side of the question figure, the right side of the original image will now be the left side of the mirror image and vice versa.

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

Question 36 :

Which of the following interchange in two mathematical operation will balance the question given below. $75 \div 15 \times 8 + 14 - 5 = 67$

Difficulty : Moderate

Average Time : 79 Seconds

Options :

- 1. \div and \times
- 2. $-$ and \div
- 3. $-$ and \times
- 4. $+$ and $-$

Solution :

The correct answer is **option 3 i.e. - and \times .**

Given Equation : $75 \div 15 \times 8 + 14 - 5 = 67$

After interchanging signs in Option 3 the equation is satisfied:

$$75 \div 15 - 8 + 14 \times 5 = 67$$

$$5 - 8 + 14 \times 5 = 67$$

$$5 - 8 + 70 = 67$$

$$70 - 3 = 67$$

$$67 = 67$$

Therefore , LHS = RHS and equation is satisfied.



Hence, - and x is the correct answer.

Question 37 :

Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusions logically follow from the given statements. Statements: All elephants are tigers. All tigers are horses. No horse is a camel. Conclusions (I): Some horses are elephants, Conclusion (II): Some camels are tigers

Difficulty : Moderate

Average Time : 66 Seconds

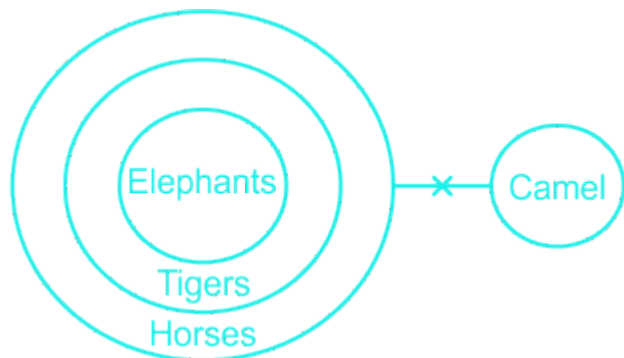
Options :

1. Only conclusion I follows.
2. Both conclusions I and II follow.
3. Only conclusion II follows.
4. Neither conclusion I nor II follows.

Solution :

The correct answer is **option 1 i.e. Only conclusion I follows.**

The least possible diagram will be :



Conclusion:

(I): Some horses are elephants True (As All elephants are horses so some horses are elephants)

(II): Some camels are tigers False (It is possible but not definite)

Hence , **Only conclusion I follows** is the correct answer.

**Question 38 :**

Three of the following four are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group? (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 : 76 Seconds****Options :**

1. 46 - 41 - 12
2. 16 - 9 - 21
3. 23 - 18 - 15
4. 34 - 28 - 18

Solution :

The correct answer is **Option 1** i.e. **46 - 41 - 12**.

The logic used here is:

$(1\text{st number} - 2\text{nd number}) \times 3 = 3\text{rd number}$

Option 1: 46 - 41 - 12

$$46 - 41 = 5$$

$$5 \times 3 = 15$$

This does not follow the logic.

Hence, **46 - 41 - 12** is the odd one out.

Question 39 :

Identify the number of triangles in the given figure.

Difficulty : Moderate**Average Time : 46 Seconds****Options :**

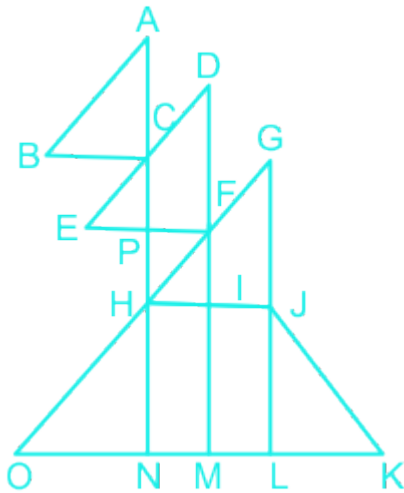
1. 10
2. 7
3. 8

9

Solution :

The correct answer is **option 1 i.e. 10**

We can count the triangles in the given figure by naming all the points and counting all triangles one by one initially the smaller one then combining two or more small triangles.



No. of triangles = ABC, DEF, CPE, FPH, FHI, GHJ, HNO, FMO, GLO and JLK

Hence, the correct answer is **10**.

Question 40 :

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

Difficulty : Moderate

Average Time : 53 Seconds

Options :



2.

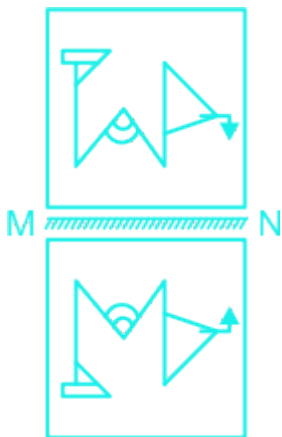
-
- 3.
- 4.

Solution :



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

The mirror image of the question figure is shown below:



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



mirror image and vice versa.

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

Question 41 :

Which of the following letter clusters will replace the question mark (?) in the given series to make it logically complete? EY 14, ?, IW 20, KV 24, MU 26

Difficulty : Moderate

Average Time : 80 Seconds

Options :

1. GY 19
2. HZ 18
3. GX 18
4. HY 19

Solution :

The correct answer is **Option 3** i.e. **GX 18**.

Given series: EY 14, ?, IW 20, KV 24, MU 26

The series follows this pattern:

IW 20, KV 24

$$I + 2 = K$$

$$W - 1 = V$$

$$20 + 4 = 24$$

KV 24, MU 26

$$K + 2 = M$$

$$V - 1 = U$$

$$24 + 2 = 26$$

Similarly;

EY 14, ?

$$E + 2 = G$$



$$Y - 1 = X$$

$$14 + 4 = 18$$

So, the missing term in the series is **GX 18**.

Question 42 :

In a certain code language, 'RESENT' is written as 'TGUCLR' and 'PEOPLE' is written as 'RGQNJC'. How is 'PERSON' written in the given language?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. RGTQML
2. RGTQMP
3. RGSUQL
4. RGTUQP

Solution :

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

Logic :

'RESENT' is written as 'TGUCLR'

$$R + 2 = T$$

$$E + 2 = G$$

$$S + 2 = U$$

$$E - 2 = C$$

$$N - 2 = L$$

$$T - 2 = R$$

'PEOPLE' is written as 'RGQNJC'

$$P + 2 = R$$

$$E + 2 = G$$

$$O + 2 = Q$$

$$P - 2 = N$$

$$L - 2 = J$$

$$E - 2 = C$$

Similarly,

'PERSON' be written as:

$$P + 2 = R$$

$$E + 2 = G$$

$$R + 2 = T$$

$$S - 2 = Q$$

$$O - 2 = M$$

$$N - 2 = L$$

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

Question 43 :

Which letter cluster should come in place? in the given series based on the English alphabetical order? GBW, EZX, CXY, AVZ,?

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. ZTB
2. YTA
3. XSB
4. XRC

Solution :

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

Given series: GBW, EZX, CXY, AVZ,?

The series follows this pattern:

GBW, EZX

$G - 2 = E$

$B - 2 = Z$

$W + 1 = X$

Similarly;

AVZ,?

$A - 2 = Y$

$V - 2 = T$

$Z + 1 = A$

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

Question 44 :

In a certain code language, 'will come back' is written as 'mp ro pl' and 'back to school' is written as 'jn st mp'. How is 'back' written in the given language?

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. pl
2. rq
3. jn
4. mp

Solution :

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

Given :

'will come back' is written as 'mp ro pl'

'back to school' is written as 'jn st mp'

"Back " is common in both given sentences and represented by "mp" which is also common in both the coded sentences.

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

Question 45 :



If 17 April 1992 is Friday, then what will be the day of the week on 10 October 1993?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Sunday
2. Wednesday
3. Monday
4. Tuesday

Solution :

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

Given : 17 April 1992 is Friday

17 April 1993 will be Friday + 1 = Saturday

So, the number of days between 17 April 1993 and 10 October 1993 will be:

13(April) + 31(May) + 30 (June) + 31 (July) + 31 (August) + 30 (September) + 10 (October)

= 176 $176 / 7 = 25$ weeks and 1 odd day

So, 10 October is Saturday + 1 = Sunday

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

Question 46 :

Select the number from among the given options that can replace the question mark (?) in the following series. 13, 24, 46, 90, 178,?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. 358
2. 352
3. 354
4. 356

Solution :



The correct answer is **Option 3** i.e. **354**.

Given series: 13, 24, 46, 90, 178, ?

The series follows this pattern:

$$13 \times 2 - 2 = 24$$

$$24 \times 2 - 2 = 46$$

$$46 \times 2 - 2 = 90$$

$$90 \times 2 - 2 = 178$$

$$178 \times 2 - 2 = 354$$

So, the next term in the series is **354**.

Hence, **354** is the correct answer.

Question 47 :

Based on the alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does NOT belong to that group?

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. MZK
2. DFB
3. WYU
4. TVR

Solution :

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

The logic used here is:

$$1\text{st letter} + 2 = 2\text{nd letter}$$

$$2\text{nd letter} - 4 = 2\text{nd letter}$$

Option 1: MZK

$$M + 2 = O$$



O - 4 = K

This does not follow the logic.

Hence, **MZK** is the odd one out.

Question 48 :

Find out the correct alternative that when filled in the blanks in the same sequence will make the series logically complete.

G _ M A, _ V O Y, K T Q _, M R _ U, O _ U S

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. **X I W S P**
2. X G V S P
3. X O W S O
4. X G W T Q

Solution :

The correct answer is **Option 1** i.e. **X I W S P**.

The sequence is: X I W S P

Given sequence: G _ M A, _ V O Y, K T Q _, M R _ U, O _ U S

Option 1: X I W S P

G **X** M A, I V O Y, K T Q **W**, M R **S** U, O **P** U S

Option 1 forms a particular pattern.

Hence, **X I W S P** is the correct answer.

Question 49 :

L is the sister of G. G is the son of M. M is married to D. D is the sister of E. E is the son of C. C is married to S. S is the sister of P. How is L related to E?

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. **Wife's sister**
2. **Brother's daughter**

Sister's daughter

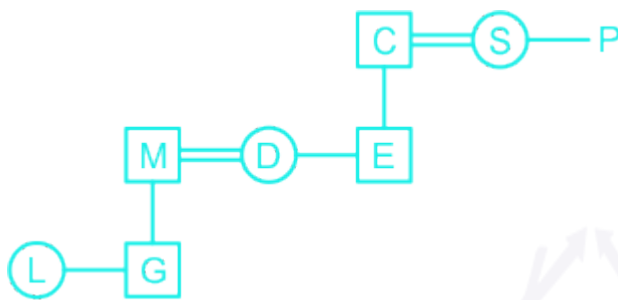
4. Daughter

Solution :

The correct answer is **option 3 i.e. Sister's daughter.**

L is the sister of G. G is the son of M. M is married to D. D is the sister of E. E is the son of C. C is married to S. S is the sister of P

The family tree is as follows:



We can see that L is the **Sister's daughter** of E.

Hence, the correct answer is **Sister's daughter.**

Question 50 :

Four number pairs have been given out of which three are alike in some manner and one is different. Select the one that is different (NOTE: Operations should be performed on the whole number, without breaking down the numbers into their constituent digits. E.g. 13-Operations on 13 such as adding (deleting 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 : 75 Seconds

Options :

1. 46-141
2. 29-88
3. 35-108
4. 55-168

Solution :

The correct answer is **Option 4** i.e. **29-88**.

The logic used here is:

$$(1\text{st number} \times 3) + 3 = 2\text{nd number}$$

Option 1: 46-141

$$46 \times 3 = 138$$

$$138 + 3 = 141$$

This follows the logic.

Option 4: 29-88

$$29 \times 3 = 87$$

$$87 + 3 = 90$$

This does not follow the logic.

Hence, **29-88** is the odd one out.

Question 51 :

Identify the figure given in the option that when put in place of the question mark (?) will logically complete the series.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1.

8	3	△
	D	X
0		V

2.

V	△	D
	X	0
8		3

3.

8	3	△
	X	0
D		V

4.

8	△	X
	V	D
0		3

Solution :

8	3	△
	D	X
0		V

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

Question 52 :

Study the given pie-chart and table and answer the question that follows. The pie-chart shows the percentage distribution of age groups of visitors to a park in a month. The table shows the male, female distribution of the visitors in terms of the percentage. If 2000 male visitors and 1500 female visitors were there in all, then the number of male visitors the age group 25 - 30 to the female visitors of the age group 45 - 60

Difficulty : Moderate

Average Time : 71 Seconds

Options :

1. 71:45
2. 57:41
3. 63:47
4. 81:29

Solution :

The correct answer is **option 4** i.e. **81:29**.

Given that

Total number of visitors = Male visitors + Female visitors

$$= 2000 + 1500 = 3500$$

$$\text{So, total visitors of the age group 25 - 30 is} = 3500 \times 27/100 = 945$$

$$\text{the number of male visitors of the age group 25 - 30} = 945 \times 60/100 = 567$$

Similarly,

$$\text{The total visitors of the age group 45 - 60} = 3500 \times 29/100 = 1015$$



The number of female visitors of the age group 45 - 60 = $1015 \times 20/100 = 203$

Hence, the required ratio = $1015 : 203 = 81 : 29$

Question 53 :

A shopkeeper marks his goods at 80% more than their cost price and allows at discount of 48% on the marked price. His loss percentage is.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. $2\left(\frac{1}{2}\right)\%$
2. $7\left(\frac{1}{7}\right)\%$
3. $6\left(\frac{2}{5}\right)\%$
4. $3\left(\frac{1}{5}\right)\%$

Solution :

The correct answer is **option 3** i.e. $6\left(\frac{2}{5}\right)\%$.

Given that

Marked price = 80% more than cost price

Let the cost price be 100 units

Marked price = 180 units

Discount on marked price = 48%

After discount, The selling price = $180 \times (100 - 48)/100 = 93.6$

Formula used

loss percentage = $[(C.P. - S.P.)/C.P.] \times 100$

Calculation

loss percentage = $[(100 - 93.6)/100] \times 100 = 6\left(\frac{2}{5}\right)\%$

Question 54 :

The three sides of a triangle are 9, 24 and S units. Which of the following is correct?

Difficulty : Moderate

Average Time : 56 Seconds

Options :



15 S 33

2. 15 S 33

3. 15 S 33

4. 15 S 33

Solution :

The correct answer is **option 1** i.e. **15 S 33**.

Given that

The three sides of a triangle are 9, 24 and S units

Concept used

A triangle is possible when the sum of its two sides is greater than the third side

So, condition of possible a triangle

$$(24 - 9) < S < (24 + 9)$$

$$15 < S < 33$$

Question 55 :

If $2x + \frac{2}{x} = 5$, then the value of $(x^3 + \frac{1}{x^3} + 2)$ will be:

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. $\frac{81}{11}$

2. $\frac{81}{7}$

3. $\frac{71}{8}$

4. $\frac{81}{8}$

Solution :

The correct answer is **option 4** i.e. $\frac{81}{8}$

Given that

$$\text{If } 2x + \frac{2}{x} = 5,$$

$$x + \frac{1}{x} = \frac{5}{2}$$



Cube on both sides

$$x^3 + \frac{1}{x^3} + 3 \left(x + \frac{1}{x} \right) = 125/8$$

$$x^3 + \frac{1}{x^3} + 3 \times (5/2) = 125/8$$

$$x^3 + \frac{1}{x^3} = 125/8 - 15/2$$

$$x^3 + \frac{1}{x^3} = (125 - 60)/8 = 65/8$$

$$\text{Hence, } x^3 + \frac{1}{x^3} + 2 = 65/8 + 2 = \frac{81}{8}$$

Question 56 :

Shushan's monthly income is Rs. 45,000 and his monthly expenditure is Rs. 33,000 if his monthly income is increased by 22% while monthly expenditure is increased by 11% then what is his new monthly savings(in Rs.)?

Difficulty : Moderate

Average Time : 73 Seconds

Options :

1. 18,270
2. 18,690
3. 18,000
4. 19,000

Solution :

The correct answer is **option 1 i.e. 18,270.**

Given that

Shushan's monthly income = Rs. 45,000

His monthly expenditure = Rs. 33,000

As we know,

Savings = Income - Expenditure

Savings = 45000 - 33000 = Rs. 12000

Now, His new monthly income after increment = 45000 × 122/100 = Rs. 54900

His new monthly Expenditure after increment = 33000 × 111/100 = Rs. 36630

Hence, his new monthly savings = 54900 - 36630 = Rs. 18270

Question 57 :



If $x + \left(\frac{1}{x}\right) = 7$, Then the value of $x^2 + \left(\frac{1}{x^2}\right)$ is :

Difficulty : Moderate

Average Time : 47 Seconds

Options :

1. 49
2. 51
3. 47
4. 5

Solution :

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

Given that

$$\text{If } x + \left(\frac{1}{x}\right) = 7,$$

Square both sides

$$\left(x + \left(\frac{1}{x}\right)\right)^2 = 7^2$$

$$x^2 + \left(\frac{1}{x^2}\right) + 2 = 49$$

$$x^2 + \left(\frac{1}{x^2}\right) = 49 - 2 = 47$$

Question 58 :

Two circles of radii 12 cm and 13 cm are concentric. The length of the chord of the larger circle that touches the smaller circle is:

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. 8 cm
2. 18 cm
3. 10 cm
4. 12 cm

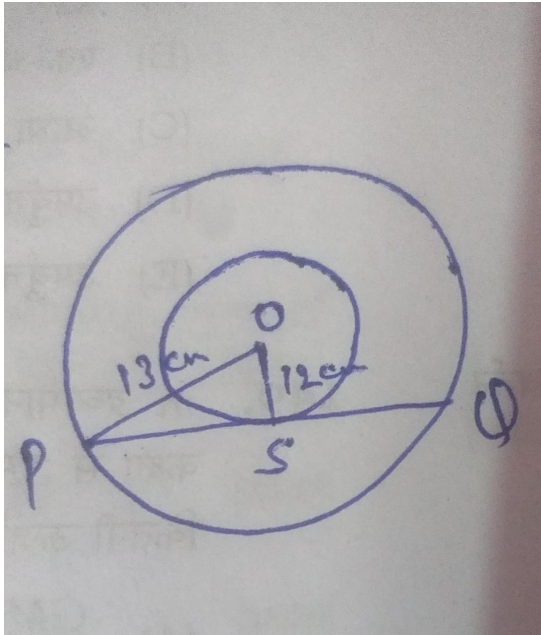
Solution :

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

Given that

Two circles of radii 12 cm and 13 cm are concentric

The chord PQ touches the small circle at S



$$OP = 13 \text{ cm}, OS = 12 \text{ cm}$$

In triangle OPS,

$$OP^2 = OS^2 + PS^2$$

$$PS^2 = 13^2 - 12^2 = 169 - 144 = 25$$

$$PS = 5 \text{ cm}$$

Hence, the chord length $PQ = 2 \times 5 = 10 \text{ cm}$

Question 59 :

If $\sin A + \sin^2 A = 1$, then the value of the expression $(\cos^2 A + \cos^4 A)$ is _____

Difficulty : Moderate

Average Time : 58 Seconds

Options :

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

2. 1



2

4. $\left(\frac{1}{2}\right)$ **Solution :**

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

Given that

$$\sin A + \sin^2 A = 1$$

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

The value of the expression $(\cos^2 A + \cos^4 A)$

$$\cos^2 A + \cos^4 A$$

$$\sin A + \sin^2 A$$

1

Question 60 :

The average age of 6 members of a family is 25 years. If the youngest member is 4 years old, then what was the average age of family just before the birth of the youngest member?

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

1. 27.2 years
2. 24.8 years
3. 32.8 years
4. 25.2 years

Solution :

The correct answer is **option 4** i.e. **25.2 years**.

Given that

The average age of 6 members of a family is 25 years

$$\text{The sum of ages of 6 members} = 25 \times 6 = 150 \text{ years}$$

If the youngest member is 4 years old,



According to the question

The total age of family just before the birth of the youngest member = $(150 - 4 \times 6) = (146 - 24) = 126$ years

Hence, the average age of family just before the birth of the youngest member = $126/5 = 25.2$ years

Question 61 :

If $\cot = \left(\frac{9}{17}\right)$, find the value of cosec^2 .

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. $1\left(\frac{9}{17}\right)$
2. $\left(\frac{208}{289}\right)$
3. $\left(\frac{8}{17}\right)$
4. $1\left(\frac{81}{289}\right)$

Solution :

The correct answer is **option 4** i.e. $1\left(\frac{81}{289}\right)$

Given that

If $\cot = \left(\frac{9}{17}\right)$,

As we know,

$$\operatorname{cosec}^2 - \cot^2 = 1$$

$$\operatorname{cosec}^2 = 1 + \cot^2 = 1 + \left(\frac{9}{17}\right)^2 = 1 + \frac{81}{289}$$

$$\operatorname{cosec}^2 = 1\left(\frac{81}{289}\right)$$

Question 62 :

How long { in years } will a sum of money invested at 6% per annum simple interest to increase its value by 40%.

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. $6\left(\frac{2}{3}\right)$
2. $5\left(\frac{2}{3}\right)$
3. $6\left(\frac{1}{2}\right)$

$$4\left(\frac{1}{3}\right)$$

Solution :

The correct answer is **option 1** i.e. $6\left(\frac{2}{3}\right)$

Given that

The rate of simple interest = 6% p.a.

Increase its value by 40%

Formula used

$$\text{S.I.} = \text{Principal} \times \text{rate} \times \text{time}/100$$

$$\text{Amount} = \text{Principal} + \text{S.I.}$$

Calculation

Let Principal be 100X

$$\text{Amount} = 100X + 100X \times 6 \times \text{time}/100$$

$$140X = 100X + 100X \times 6 \times \text{time}/100$$

$$40X = 6X \times \text{time}$$

$$\text{time} = 40/6 = 6\left(\frac{2}{3}\right) \text{ years}$$

Question 63 :

A tangent at point A of a circle of radius 6 cm meets a line through the centre O at point B. If OB = 10 cm, then the length of AB (in cm) is equal to:

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. 5

2. 6

3. 4

4. 8

Solution :

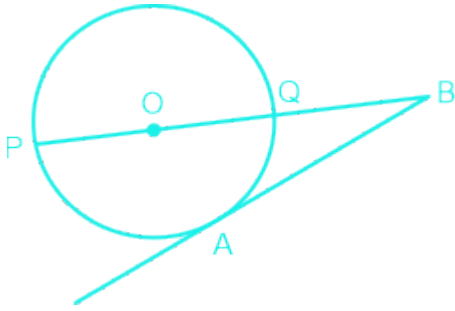
The correct answer is **option 4** i.e. **8**

Given that

A circle of radius (r) = 6 cm

OB = 10 cm

A line PQ through the centre O meets at point B



$PQ = 2 \times 6 = 12$ cm, $PB = OP + OB = 6 + 10 = 16$ cm, $QB = OB - OQ = 10 - 6 = 4$ cm

According to the tangent theorem

$$AB^2 = PB \times QB$$

$$AB^2 = 16 \times 4 = 64$$

$$AB = 8 \text{ cm}$$

Question 64 :

Subhas, a 3.15 m tall tree, and an 11.25 m tall building are positioned such that their feet on the ground are collinear and the tree is located between Subhas and the building. The tree is located at a distance of 45 m from the building. Further, the eyes of Subhas at the top of the tree and the top of the building fall in one line, and the eyes of Subhas are at a height of 1.8 m from the ground. At what distance (in m) from Subhas is the tree located?

Difficulty : Moderate

Average Time : 74 Seconds

Options :

1. 6

2. 5

3. 7.5

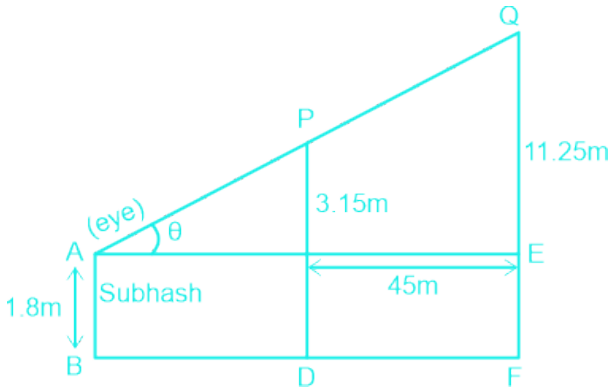
4. 9

Solution :

The correct answer is **option 3 i.e. 7.5.**

Given that

Subhas, a 3.15 m tall tree, and an 11.25 m tall building are positioned such that their feet on the ground are collinear.



A tall tree $PD = 3.15$ m

A building $QF = 11.25$ m

Distance between tree and building $CE = 45$ m

'A' is a Subhas eye that makes an angle θ at the top of the tree and the top of building.

Let the distance between Subhas and tree be AC

Calculation

$$AB = CD = EF = 1.8 \text{ m}$$

$$\text{So, } QE = QF - EF = 11.25 - 1.8 = 9.45 \text{ m}$$

$$PC = PD - CD = 3.15 - 1.8 = 1.35 \text{ m}$$

In triangle AQE, and In triangle PAC

$$\tan \theta = QE/AE = PC/AC$$

$$9.45/AE = 1.35/AC$$

$$9.45 AC = 1.35 AE = 1.35 (AC + CE) = 1.35 (AC + 45) = 1.35 AC + 1.35 \times 45$$

$$9.45 AC - 1.35 AC = 60.75$$

$$8.1 AC = 60.75$$

$$AC = 60.75/8.1 = 7.5 \text{ m}$$

Question 65 :

Find the third proportional of 25 and 45.



Difficulty : Moderate

Average Time : 76 Seconds

Options :

1. 85
2. 65
3. 81
4. 76

Solution :

The correct answer is **option 3 i.e. 81.**

Given that

the third proportional of 25 and 45

Let the third proportion be C

According to the question

$$25/45 = 45/C$$

$$C = 45 \times 45/25 = 81$$

Question 66 :

Study the given table and answer the question that follows. The table indicates the number of students studying in three disciplines in four different colleges. Which college has the minimum number of students in Commerce?

Difficulty : Moderate

Average Time : 44 Seconds

Options :

1. A
2. B
3. C
4. D

Solution :

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

Given that



The number of students studying in commerce discipline in four different colleges

College A = 520

College B = 550

College C = 515

College D = 690

Hence, the minimum number of students in Commerce in college C

Question 67 :

The following bar graph indicates the sales of various items in a shop for one day. Study the bar graph carefully and answer the question that follows Find the ratio between the sale of wheat and rice and also the ratio between the sale of sugar and onions, respectively.

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. 1:2 and 1:1
2. 1:1 and 2:1
3. 2:1 and 1:2
4. 1:1 and 1:1

Solution :

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

Given that

The sale of wheat = 10

The sale of rice = 20

The sale of sugar = 5

The sale of onions = 5

According to the question

The ratio between the sale of wheat and rice = $10/20 = 1/2$ i.e. 1 : 2

The ratio between the sale of sugar and onions = $5/5 = 1/1$ i.e 1 : 1

Question 68 :



If a right circular cone of height 24 cm has the circumference of its base 42 cm, then the volume of the cone is (use $= \frac{22}{7}$)

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. 15211 cm³
2. 11088 cm³
3. 12034 cm³
4. 21011 cm³

Solution :

The correct answer is **option 2 i.e. 11088 cm³**.

Given that

If a right circular cone of height 24 cm has the circumference of its base 42 cm

Formula used

Volume of a cone = $\frac{1}{3} \pi r^2 h$ cubic units

The circumference of its base = $2\pi r$

where, r is radius and h is height of the cone

Calculation

$$2\pi r = 42$$

$$r = 21 \text{ cm}$$

$$\text{Volume of a cone} = \frac{1}{3} \pi r^2 h = \left(\frac{22}{7}\right) \times 441 \times 24 = 11088 \text{ cm}^3$$

Question 69 :

A dishonest shopkeeper professes to sell grains at the cost price, but he uses a weight of 920 gm for 1 kg weight. Find his gain percentage (round up to two decimal places).

Difficulty : Moderate

Average Time : 62 Seconds

Options :

1. 7.90%



8.70%

3. 8.50%

4. 7.80%

Solution :

The correct answer is **option 2** i.e **8.70%**.

Let the cost price of 1000 gm = 1000 units

Shopkeeper sells it at cost price by using a weight of 920 gm for 1 kg weight

Cost price of 920 gm = 920 units

Selling price of 920 gm = 1000 units

According to the question

Profit % = $[(1000 - 920)/920] \times 100$

= $(80/920) \times 100 = 8000/920 = 8.70\%$

Question 70 :

A can finish a work in 15 days. B can finish the same work in 25 days. They work together for 5 days, after which B was replaced by C and the rest of the work is finished by A and C in next 4 days. Then C alone can finish the work in:

Difficulty : Moderate

Average Time : 55 Seconds

Options :

1. 18 days

2. 24 days

3. 20 days

4. 21 days

Solution :

The correct answer is **option 3** i.e. **20 days**.

Given that

A can finish a work in 15 days

B can finish the same work in 25 days

A and B work together for 5 days,

The remaining work is completed by A and C in 4 days

According to the question

Total work = LCM (15, 25) = 75

The efficiency of A = $75/15 = 5$

The efficiency of B = $75/25 = 3$

The work is done by A and B = $(5 + 3) \times 5 = 40$

The remaining work ($75 - 40 = 35$) is done by A and C = $35/4 = 8.75$

Now, the efficiency of C = $8.75 - 5 = 3.75$

Hence, C alone can finish the work in = $75/3.75 = 20$ days

Question 71 :

Zeenat and Nasreen participate in a circular race of 1.2 km. They start the race at a speed of 18 km/h and 27 km/h, respectively, from the same point at the same time. After how much time (in minutes) will they meet at the starting point for the first time, if they are running in the same direction?

Difficulty : Moderate

Average Time : 72 Seconds

Options :

1. 9
2. 7
3. 10
4. 8

Solution :

The correct answer is **option 4 i.e. 8**.

Given that

The length of a circular race = 1.2 km

The speed of Zeenat = 18 km/h

The speed of Nasreen = 27 km/h

They run in the same direction



According to the question

The relative speed = $27 - 18 = 9$ km/h

They will meet at the starting point for the first time = $(1.2/9) \times 60 = 8$ minutes

Question 72 :

Which of the following number is NOT divisible by 11?

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. 1735624
2. 752563
3. 1661308
4. 1904529

Solution :

The correct answer is **option 2 i.e. 752563.**

As we know,

Divisibility rule of 11 = if the difference of the sum of digits at odd position and sum of digits at even position in a number is 0 or 11.

According to the question

Option 1 : 1735624

$$(1 + 3 + 6 + 4) - (7 + 5 + 2) = 14 - 14 = 0$$

Hence, the Option 1 is divisible by 11

Option 2 : 752563

$$(7 + 2 + 6) - (5 + 5 + 3) = 15 - 13 = 2$$

Hence. the Option 2 is not divisible by 11

Question 73 :

In a show room, the marked prices of various items are displayed in such a manner that after giving a 10% discount to the customers, the owner of the show room earns a profit of 20%. What is the ratio of the marked price and cost price of each item?



Difficulty : Moderate

Average Time : 58 Seconds

Options :

1. 3:4

2. 4:3

3. 5:2

4. 2:5

Solution :

The correct answer is **option 2 i.e. 4:3.**

Given that

Discount (D) = 10%

Profit earned (P) = 20%

Formula used

Marked price/Cost price = $(100 + P)/(100 - D)$

Calculation

Marked price/Cost price = $(100 + 20)/(100 - 10) = 120/90 = 4/3$

Hence, the required ratio is 4 : 3

Question 74 :

If $5x + 3y = 15$ and $2xy = 6$ then the value of $5x-3y$ is:

Difficulty : Moderate

Average Time : 40 Seconds

Options :

1. 3 3

2. 3 5

3. 3 2

4. 3 4

Solution :

The correct answer is **option 2 i.e. 3 5.**



Given that

$$\text{If } 5x + 3y = 15 \text{ and } 2xy = 6$$

As we know

$$(5x - 3y)^2 = (5x + 3y)^2 - 60xy$$

$$(5x - 3y)^2 = (15)^2 - 30 \times 2xy$$

$$(5x - 3y)^2 = 225 - 30 \times 6 = 225 - 180$$

$$(5x - 3y)^2 = 45$$

$$5x - 3y = 45 = 3 \times 5$$

Question 75 :

A certain amount of money was lent for a period of 1 year 9 months at a rate of 10% per annum compounded annually. If the compound interest is 1,460, find the amount of money lent.

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. ₹ 8,200
2. ₹ 7,500
3. ₹ 6,000
4. ₹ 8,000

Solution :

The correct answer is **option 4 i.e. ₹ 8,000.**

Let the amount of money lent be 1000 units

Given that

Rate of interest = 10% p.a.

Time period (T) = 1 year 9 months

The compound interest = ₹ 1,460

Formula used

Compound interest = Principal $(1 + R/100)^T$ - Principal



According to the question

For the 1 year, rate of interest = 10%

So, Interest for 1 year = $1000 (1 + 10/100)^1 - 1000 = 1100 - 1000 = 100$ units

Now, for next 9 months, rate of interest = $9 \times 10/12 = 30/4 = 7.5\%$ p.a.

So, Interest for next 9 months = $1000 \times 7.5/100 + 100 \times 7.5/100 = 82.5$ units

Thus, the total compound interest = $100 + 82.5 = 182.5$ units

$182.5 = 1460$

1 units = $1460/182.5 = 8$

1000 units = $8 \times 1000 = \text{â},18000$

Hence, the amount of money lent is $\text{â},18000$

Question 76 :

Who was awarded the Nobel Prize in Physics in 1909 along with Karl Ferdinand Braun for the development of practical wireless telegraphy?

Difficulty : Moderate

Average Time : 66 Seconds

Options :

1. Heinrich Rudolf Hertz
2. John Michell
3. Wilhelm Rontgen
4. Guglielmo Marconi

Solution :

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

- The Nobel Prize in Physics in 1909 was awarded jointly to Guglielmo Marconi and Karl Ferdinand Braun for their contributions to the development of wireless telegraphy.
- Marconi was honored for his pioneering work in the development and practical application of wireless telegraphy, while Braun was recognized for his research and contributions to wireless telegraphy, particularly his invention of the cathode-ray oscilloscope.

Question 77 :



Pandit Shivkumar Sharma is remembered for his mastery in playing _____.

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Tabla
2. Sarod
3. Sitar
4. Santoor

Solution :

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

- Pandit Shivkumar Sharma is remembered for his mastery in playing the Santoor.
- The Santoor is a traditional Indian musical instrument with origins in the Kashmir region.
- Shivkumar Sharma is one of the foremost musicians to popularize the Santoor and has made significant contributions to Indian classical music through his performances and compositions on this instrument.

Question 78 :

Women SHG member appointed as a banking agent is called _____.

Difficulty : Moderate

Average Time : 46 Seconds

Options :

1. Bank Mitra
2. Bank Dost
3. Bank Sakhi
4. Bank NGO

Solution :

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

- A woman Self-Help Group (SHG) member who is appointed as a banking agent is often referred to as a "Bank Sakhi."
- This term is commonly used in India to denote women who act as intermediaries between banks and rural communities, particularly in areas where banking services are not easily accessible.
- Bank Sakhis play a crucial role in facilitating financial transactions, providing banking services, and promoting financial inclusion among underserved populations, especially in rural areas.

**Question 79 :**

Which potassium acid salt is obtained as a by-product of alcohol manufacture during the fermentation process?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Potassium citrate
2. Potassium bitartrate
3. Potassium nitrate
4. Potassium hydrogen adipate

Solution :

The correct answer is **option 2 i.e. Potassium bitartrate.**

- Potassium bitartrate, also known as cream of tartar, is obtained as a by-product of alcohol manufacture during the fermentation process.
- It forms when tartaric acid, naturally present in grapes, reacts with potassium ions in grape juice during the fermentation of wine.
- Potassium bitartrate can crystallize and precipitate out of wine during fermentation and aging, often appearing as sediment or crystals in the bottom of wine barrels or bottles.

Question 80 :

Mundari dance is associated with the tribal community of which Indian state?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Mizoram
2. Karnataka
3. Arunachal Pradesh
4. Jharkhand

Solution :

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

- The Mundari dance is associated with the tribal community of Jharkhand, an Indian state located in the eastern part of the country.
- The Mundari tribe is one of the prominent indigenous communities in Jharkhand, and the Mundari dance is an



integral part of their cultural heritage.

- It is performed during various festivals, rituals, and celebrations, showcasing the vibrant traditions of the Mundari people.

Question 81 :

In 2014, Bandhan Financial Services, microlender with Headquarters at _____, was granted in - principal approval by RBI to start a universal bank.

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Kolkata
2. Mumbai
3. Pune
4. Lucknow

Solution :

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

- In 2014, Bandhan Financial Services, a microlender, was granted in-principal approval by the Reserve Bank of India (RBI) to start a universal bank.
- The headquarters of Bandhan Financial Services is located in Kolkata, West Bengal, India.

Question 82 :

What is the width of the court for double matches in Lawn Tennis?

Difficulty : Moderate

Average Time : 42 Seconds

Options :

1. 38 feet
2. 36 feet
3. 34 feet
4. 32 feet

Solution :

The correct answer is **option 2 i.e. 36 feet.**



- The width of the court for doubles matches in lawn tennis is 36 feet (approximately 10.97 meters).
- This width applies to both singles and doubles matches.
- In doubles matches, the court is also divided into two equal halves by the center service line, with each half being 18 feet wide.

Question 83 :

Match the following statements: List I List II a) Champakkulam boat race i) Gujarat b) Somnath fair ii) Haryana c) Surajkund fair iii) Rajasthan d) Baneshwar fair iv) Kerala

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. a-iv, b-iii, c-i, d-ii
2. a-iii, b-1, c- iv, d-ii
3. a-iv, b-ii, c-i, d-iii
4. a-iv, b-i, c-ii, d-iii

Solution :

The correct answer is **option 4 i.e a-iv, b-i, c-ii, d-iii.**

- **Champakkulam Boat Race:** It is indeed a popular boat race held in Kerala, particularly in the Alappuzha district.
- **Somnath Fair:** Somnath Fair is a significant fair held in Gujarat near the famous Somnath Temple.
- **Surajkund Fair:** The Surajkund Crafts Mela is indeed a cultural fair held near Surajkund in Haryana.
- **Baneshwar Fair:** The Baneshwar Fair is a religious fair held in the Baneshwar Temple in the Dungarpur district of Rajasthan.

Question 84 :

Mid - latitude deserts (BWK) are found between 35° and _____ N and S, which are poleward of subtropical high - pressure areas.

Difficulty : Moderate

Average Time : 61 Seconds

Options :

1. 70
2. 60
3. 79



40

Solution :

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

- Mid-latitude deserts (classified as BWk according to the Köppen climate classification) are typically found between 35° and 60° latitude, both north and south of the equator.
- These regions are situated poleward of the subtropical high-pressure belts, where sinking air masses inhibit cloud formation and precipitation, resulting in arid or semi-arid conditions.

Question 85 :

Panchpatmali deposits in Koraput district are the deposits of which of the following minerals?

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

1. Iron ore
2. Copper
3. Manganese
4. Bauxite

Solution :

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

- The Panchpatmali deposits in the Koraput district are primarily known for their bauxite deposits.
- Bauxite is the primary ore used for the production of aluminum.
- These deposits are located in the state of Odisha, India, and they are significant in terms of bauxite extraction and aluminum production in the country.

Question 86 :

Which of the following Anglo - Maratha wars resulted in merging the Peshwas' territories with the Bombay Presidency?

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

Page No: 62

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Fourth

2. Third

3. Second

4. First

Solution :

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

- The Anglo-Maratha War that resulted in the merging of the Peshwa's territories with the Bombay Presidency was the Third Anglo-Maratha War.
- This conflict took place between 1817 and 1818 and ended with the defeat of the Maratha Confederacy by the British East India Company.
- As a consequence of the war, the Peshwa's territories, including Pune, were annexed by the British, and these territories were integrated into the Bombay Presidency under British rule.

Question 87 :

Which of these is the correct reason for a good to be identified as a final good?

Difficulty : Moderate

Average Time : 53 Seconds

Options :

1. It is not processed by a consumer after purchase.
2. It cannot be recycled or re-used.
3. It is in the last stage of the product life cycle.
4. It is not processed further by a producer.

Solution :

The correct answer is **option 4 i.e. It is not processed further by a producer.**

- A good is identified as a final good when it is not intended for further processing or production by a producer.
- Final goods are those that are ultimately consumed by the end-user or are used for investment purposes.
- They are ready for use as they are and do not require any further transformation or processing to be used in their final form.



Question 88 :

The lofty gates erected in the courtyard of the temples in south India were called _____.

Difficulty : Moderate

Average Time : 63 Seconds

Options :

1. mandap
2. ardhmandap
3. vimana
4. gopuram

Solution :

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

- In South India, the towering, ornate entrance gateways often found in the courtyards of Hindu temples are called "gopurams."
- These gopurams are distinctive features of South Indian temple architecture and are typically elaborately adorned with sculptures, carvings, and intricate designs.
- They serve both practical and symbolic purposes, welcoming devotees into the sacred space of the temple and often depicting various mythological narratives or religious motifs.

Question 89 :

Which of the following crops is the only genetically modified (GM) crop approved for commercial cultivation in India?

Difficulty : Moderate

Average Time : 51 Seconds

Options :

1. Bt Brinjal
2. Mustard
3. Bt Cotton
4. Tomato

Solution :



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

- Bt cotton is indeed the only genetically modified (GM) crop approved for commercial cultivation in India.
- This genetically modified cotton variety produces an insecticidal protein derived from the bacterium *Bacillus thuringiensis* (Bt), which helps protect the cotton plants against certain insect pests, particularly bollworms.
- While other GM crops have been under consideration or in field trials in India, Bt cotton remains the only one approved for commercial cultivation.

Question 90 :

Which of the following players won the orange cap in IPL-2023?

Difficulty : Moderate

Average Time : 52 Seconds

Options :

1. Yashasvi Jaiswal
2. Shubman Gill
3. Faf du Plessis
4. Devon Conway

Solution :

The correct answer is **option 2 i.e. Shubman Gill.**

- Titan's Shubman Gill won the Orange cap with 890 runs in 17 innings, while Mohammed Shami, with 28 wickets, procured the Purple cap.
- Gill also won the Most Valuable Player of the Season award, while Rajasthan Royal's Yashasvi Jaiswal was named the Emerging Player of the Season.

Question 91 :

The Constitution (Scheduled Castes and Scheduled Tribes) Oriters (Second Amendment) Bill, 2022 has recognised the _____ community as a Schedule Tribe in some parts of Uttar Pradesh.

Difficulty : Moderate

Average Time : 49 Seconds

Options :

1. Erukala
2. Bhils
3. Gonds



Chenchus

Solution :

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

- Gonds have been recognized as a Schedule Tribe in some parts of Uttar Pradesh through the Constitution (Scheduled Castes and Scheduled Tribes) Orders (Second Amendment) Bill, 2022.
- The Gonds are an ethnolinguistic group in India who call themselves "Koitur".
- Gondi, their mother tongue, is a member of the Dravidian language family.

Question 92 :

When the general interest rate reaches a very low level, which of the following statements will be correct?

Difficulty : Moderate

Average Time : 48 Seconds

Options :

1. Most people will expect the interest rate to rise in the future.
2. Most people will prefer to hold bonds.
3. Most people will speculate a further decline in the rate of interest.
4. Any increase in the money supply will cause the interest rate to fall further.

Solution :

The correct answer is **option 1 i.e. Most people will expect the interest rate to rise in the future.**

- When the general interest rate reaches a very low level, most people will expect the interest rate to rise in the future because they anticipate that the central bank will try to stimulate the economy by increasing interest rates.
- As a result, most people will prefer to hold cash or short-term securities rather than long-term bonds because the latter are more sensitive to changes in interest rates and may lose value if rates rise.

Question 93 :

Which of the following government schemes provides skill development training to youth in India?

Difficulty : Moderate

Average Time : 65 Seconds

Options :

1. Pradhan Mantri Jan Dhan Yojana
2. Pradhan Mantri Kaushal Vikas Yojana



Deendayal Antyodaya Yojana

4. Pradhan Mantri Garib Kalyan Anna Yojana

Solution :

The correct answer is **option 2 i.e. Pradhan Mantri Kaushal Vikas Yojana.**

- The Pradhan Mantri Kaushal Vikas Yojana (PMKVY) is a skill development initiative of the Government of India aimed at providing vocational training and certification to Indian youth.
- Launched in 2015, PMKVY seeks to enable individuals to acquire industry-relevant skills and become employable in various sectors.
- The scheme covers a wide range of industries and trades, offering training programs that align with the needs of the industry and the job market.

Question 94 :

Who is known as the founder of Widow Remarriage Association (1861)?

Difficulty : Moderate

Average Time : 56 Seconds

Options :

1. Dr. Atma Ram Pandurang
2. RG Bhandarkar
3. Dwarkanath Tagore
4. Mahadev Govind Ranade

Solution :

The correct answer is **option 4 i.e. Mahadev Govind Ranade.**

- In 1861, when he was still a teenager, Ranade co-founded the 'Widow Marriage Association'.
- It promoted marriage for Hindu widows and acted as native compradors for the colonial government's project of passing a law permitting such marriages.
- He chose to take prayaschitta (religious penance) in the Panch-Houd Mission Case rather than insisting on his opinions.

Question 95 :

Which state in India has the highest number of aluminium smelting plants?

Difficulty : Moderate

Average Time : 49 Seconds

Options :



Odisha

2. Tamil Nadu
3. Maharashtra
4. Uttar Pradesh

Solution :

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

- Odisha in India has the highest number of aluminum smelting plants.
- Odisha is rich in bauxite, which is the primary raw material used for the production of aluminum, and it hosts several major aluminum production facilities, including smelting plants.
- However, industrial landscapes may change over time, so it's advisable to verify the latest data for the most accurate information.

Question 96 :

As of February 2023, how many times Aditi Ashok has overall won the LET (Ladies European Tour) title?

Difficulty : Moderate

Average Time : 50 Seconds

Options :

1. Four
2. Five
3. Three
4. Six

Solution :

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

- As of February 2023, Aditi Ashok has overall won the LET four times.
- She turned professional in 2016 and joined the Ladies European Tour (LET) in the same year.
- Aditi Ashok has also played on the LPGA Tour and has represented India in the Olympics.

Question 97 :

Which of the following Articles of the Indian Constitution prohibits forced labour and prevents exploitation?

Difficulty : Moderate

Average Time : 45 Seconds

Options :



Article 20

2. Article 19

3. Article 25

4. Article 23

Solution :

The correct answer is **option 4 i.e. Article 23.**

Article 23 of the Indian Constitution prohibits forced labor and aims to prevent exploitation. It states:

"Prohibition of traffic in human beings and forced labour:

(1) Traffic in human beings and begar and other similar forms of forced labour are prohibited and any contravention of this provision shall be an offence punishable in accordance with law.

(2) Nothing in this article shall prevent the State from imposing compulsory service for public purposes, and in imposing such service the State shall not make any discrimination on grounds only of religion, race, caste or class or any of them."

Question 98 :

In 1956, which of the following awards did Rukmini Devi Arundale, an eminent Bharatanatyam dancer, receive?

Difficulty : Moderate

Average Time : 59 Seconds

Options :

1. Jnanpith Award
2. Saraswati Samman
3. Kabir Puraskar
4. Padma Bhushan

Solution :

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

- In 1956, Rukmini Devi Arundale, an eminent Bharatanatyam dancer, received the Padma Bhushan award.
- The Padma Bhushan is one of the highest civilian awards in India, given by the Government of India for distinguished service of a high order in various fields, including art, dance, literature, science, and public service.
- Rukmini Devi Arundale was honored for her significant contributions to the field of Indian classical dance and her efforts in reviving and promoting Bharatanatyam.

**Question 99 :**

In which year did John Alexander Newlands propound a new concept of the 'Law of Octaves' proposing the periodicity of chemical elements arranged in order of atomic weight?

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

1. 1860
2. 1865
3. 1873
4. 1870

Solution :

The correct answer is **option 2** i.e. **1865**.

- John Alexander Newlands proposed the Law of Octaves in 1865.
- This concept suggested that when the chemical elements were arranged in order of increasing atomic weight, every eighth element displayed similar properties, akin to the musical octave.
- While Newlands' idea was initially met with skepticism, it laid the groundwork for later developments in the organization of the periodic table.

Question 100 :

In India which of the following is a Gandhian principle of Directive Principles of State Policy?

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

1. To Separate judiciary from executive
2. To organise village panchayat
3. To secure uniform civil code
4. To provide equal pay for equal work

Solution :

The correct answer is **option 2** i.e. **To organise village panchayat**.

- The Gandhian principle of organizing village panchayats is indeed a part of the Directive Principles of State Policy in



India.

- Mahatma Gandhi emphasized the importance of grassroots democracy and self-governance through village panchayats as a means to empower local communities and promote participatory decision-making.
- This principle aims to decentralize power and ensure effective governance at the local level, aligning with Gandhi's vision of democratic governance rooted in the villages.

Ssc Chsl Tier I Previous Year Question Paper Analysis

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

1. 100 questions were moderate.
2. The safe score is 141 marks.
3. , 25 questions were asked from Quantitative Aptitude, 25 questions were asked from English Language, 25 questions were asked from Logical Reasoning and 25 questions were asked from General Awareness
4. 17 questions should have been skipped if you were short of time.

Ssc Chsl Tier I Previous Year Question Paper Topic Wise Weightage

Quantitative Aptitude

1. Average - 1
2. Percentage - 1
3. Data Interpretation - 3
4. Time And Work - 1
5. Time Speed And Distance - 1
6. Interest - 2
7. Ratios And Proportion - 1
8. Geometry - 3
9. Trigonometry - 4
10. Mensuration - 1
11. Algebra - 3
12. Number System - 1
13. Profit And Loss - 3

English Language

1. Comprehensive - 3
2. Cloze Test - 2
3. Parajumbles - 1
4. Sentence Jumbles - 3
5. Idioms - 1
6. Spellings - 1
7. Voice - 3
8. Parts Of Speech - 1
9. Transformation Of Sentence - 1
10. Sentence Improvement - 1
11. Synonym - 2
12. Antonym - 3
13. Filler (Grammar) - 1
14. Correctly Spelt - 1
15. Incorrectly Spelt - 1
16. Incorrectly Spelt - 1

Logical Reasoning

1. Analogy - 2
2. Classification - 3
3. Blood Relations - 3
4. Syllogism - 1
5. Analytical Reasoning - 1
6. Calendar - 1
7. Figure Based - 1
8. Matrix - 1
9. Paper-cutting, Folding, Punching - 2
10. Series - 6
11. Mathematical Reasoning - 2
12. Cubes And Dice - 1
13. Data Sufficiency - 1

General Awareness

1. GK Misc - 25

Ssc Chsl Tier I Previous Year Question Paper Tips and Tricks



1. Try to solve Ssc Chsl Tier I Previous Year Question Paper without taking any help from the solutions.
2. Ssc Chsl 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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About Neetu Mam

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