

## **KMAT 2025 Question Paper with Solutions**

<b>Time Allowed :3 Hours</b>	<b>Maximum Marks :720</b>	<b>Total Questions :180</b>
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### **General Instructions**

**Read the following instructions very carefully and strictly follow them:**

1. This question paper comprises 180 questions. All questions are compulsory.
2. There are multiple choice questions having 4 options in each question.
3. 4 marks are awarded for a correct answer, and for every wrong answer 1 mark will be deducted.

**1. They \_\_\_\_\_ her and trusted her for years.**

- (A) know
- (B) had known
- (C) knew
- (D) known

**Correct Answer:** (C) knew

**Solution:** The sentence is in the past tense, indicating an action that was completed in the past. "Knew" is the correct simple past form of "know" that fits here.

**Quick Tip**

For past actions that were completed, use the simple past tense. "Knew" is the past form of "know," fitting perfectly in this context.

**2. I was born \_\_\_\_\_ India \_\_\_\_\_ Delhi.**

- (A) in, at
- (B) in, to
- (C) at, in
- (D) to, in

**Correct Answer:** (A) in, at

**Solution:** "Born in" is the correct prepositional phrase for indicating the place of birth.

Thus, "in India" is correct. "At" is used to refer to specific locations (like cities or places), so "at Delhi" is appropriate.

**Quick Tip**

Use "in" for larger geographical locations (countries, cities) and "at" for specific locations (addresses or points).

**3. The point you spoke of will be attended \_\_\_\_\_. But if you ever touch \_\_\_\_\_ it again, I hope you will speak \_\_\_\_\_ length on the wider question \_\_\_\_\_ which that point hinges.**

- (A) to, at, on, upon
- (B) to, upon, at, on
- (C) at, on, upon, to
- (D) upon, to, at, on

**Correct Answer:** (B) to, upon, at, on

**Solution:** "Attended to" is the correct phrase for "attending to" a topic. "Touch upon" is the correct phrase, meaning to mention something. "Speak at length" is the appropriate phrase for discussing something in detail. "Hinges on" means that the point depends on the wider question.

**Quick Tip**

Remember key phrases: "attend to," "touch upon," "speak at length," and "hinge on" are common expressions.

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**4. The word "dare" means**

- (A) help
- (B) approve
- (C) challenge
- (D) hide

**Correct Answer:** (C) challenge

**Solution:** The word "dare" refers to a challenge or an act of confronting someone, as in "I dare you."

**Quick Tip**

"Dare" is often used to express a challenge, either in a literal or figurative sense.

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**5. Which one of the following is a correctly spelled word?**

- (A) territories
- (B) teritories
- (C) territories
- (D) territories

**Correct Answer:** (D) territories

**Solution:** The correct spelling of the word is "territories." The other options contain common misspellings.

**Quick Tip**

Double-check spellings of common words like "territories" to avoid mistakes.

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**6. You have not visited me \_\_\_\_\_ a long time past.**

- (A) at
- (B) in
- (C) for
- (D) with

**Correct Answer:** (C) for

**Solution:** The sentence indicates that the action of visiting has not occurred over a period of time in the past.

"For" is the correct preposition used to express the duration of time, such as "for a year," "for a long time," etc.

In this case, "for a long time" correctly expresses the duration of time that has passed without the visit.

- "At" refers to a specific point in time or a location, so it would be incorrect here.
- "In" is used to indicate a period within which something happens (e.g., "in a week"), but it's not the right choice for expressing duration of time.

- "With" implies accompaniment, which doesn't fit the context of the sentence.

#### Quick Tip

- Use "for" to indicate a period of time (e.g., "for a long time," "for two hours").
- Avoid using "at" when referring to a period of time, as it typically refers to specific points in time (e.g., "at 10 AM").

**7. I do not expect that he will be here \_\_\_\_\_ a week and I am certain that he will not be here \_\_\_\_\_ sunset today.**

- (A) before, within
- (B) before, to
- (C) within, before
- (D) since, within

**Correct Answer:** (C) within, before

**Solution:** "Within" refers to something happening during a specified period.

- The phrase "within a week" suggests that the event will occur anytime inside that week, but not beyond it. This fits with the idea of time frame from the present moment.

"Before" is used to indicate something happening earlier than a particular point in time, such as "before sunset."

- It is used when a specific point in time is mentioned and the action will occur earlier.

Thus, the sentence "he will not be here before sunset" fits well with this usage.

- "Before, within" would be incorrect because "before" doesn't express a period in time, and "within" should come first when talking about a time frame.

- "Since" refers to a starting point in time and is used with the present perfect tense, making option (D) incorrect.

### Quick Tip

- "Within" refers to something that will occur during a specified time period, while "before" refers to something happening prior to a specific moment.
- Avoid mixing them up as they express different relationships with time.

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**8. Which one of the following is an antonym to the word fabulous?**

- (A) superb
- (B) ordinary
- (C) remarkable
- (D) awesome

**Correct Answer:** (B) ordinary

**Solution:** The word "fabulous" generally refers to something that is extraordinary or very impressive. Its antonyms should indicate something average, dull, or unremarkable.

- "Superb" means excellent or outstanding, which is a synonym, not an antonym.
- "Ordinary" is the opposite of fabulous, as it means something typical, plain, or not extraordinary.
- "Remarkable" means something worth noticing, which is also not an antonym, as it can imply something exceptional.
- "Awesome" implies something extraordinary or impressive, so it is not an antonym.

### Quick Tip

When finding antonyms, look for words that convey the opposite meaning of the given word. "Fabulous" implies something exceptional, while "ordinary" suggests something plain or average.

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**9. Which one of the following sentences is correct?**

- (A) Last year I go to Germany
- (B) Last year I went to Japan

- (C) Last year I will go to England
- (D) Last year I am going to Norway

**Correct Answer:** (B) Last year I went to Japan

**Solution:** The sentence talks about an event that happened in the past, and we need the simple past tense.

”Went” is the correct past form of ”go.”

- ”Go” is present tense, and ”will go” is future tense, both of which are incorrect for talking about a past event.
- ”Am going” indicates present continuous tense, which is also not suitable for referring to a past event.

#### Quick Tip

When referring to events in the past, use the simple past tense. The sentence should be ”I went,” not ”I go” or ”I will go.”

### 10. Which one of the following is correctly spelled?

- (A) Bouquete
- (B) Bouqet
- (C) Bouquet
- (D) Bouquette

**Correct Answer:** (C) Bouquet

**Solution:** The correct spelling of the word for a flower arrangement is ”bouquet.”

- ”Bouquete,” ”Bouqet,” and ”Bouquette” are all incorrect spellings.

#### Quick Tip

- Pay attention to commonly used words that are often misspelled, such as ”bouquet.”
- Double-check your spelling before using them.
- A ”bouquet” refers to a bunch of flowers arranged in a decorative way.

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**11. Choose the word, which is similar in meaning to the given word CONDESCEND.**

- (A) blame
- (B) resist
- (C) trick
- (D) act superior

**Correct Answer:** (D) act superior

**Solution:** The word "condescend" means to act in a superior or patronizing manner towards others.

- "Blame" means to assign responsibility for something negative.
- "Resist" means to oppose or fight against something.
- "Trick" means to deceive or cheat.
- "Act superior" is the closest match to "condescend," which implies behaving as if one is superior to others.

**Quick Tip**

"Condescend" refers to a person acting in a manner that shows they think they are better than others. It is synonymous with "act superior."

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**12. Choose the word which is having similar meaning as the word "INDELIBLE."**

- (A) Memorable
- (B) Stirring
- (C) Inerasable
- (D) Lasting

**Correct Answer:** (C) Inerasable

**Solution:** "Indelible" refers to something that cannot be erased or forgotten.

- "Memorable" means something that is easy to remember, but it does not necessarily mean it cannot be erased.

- "Stirring" means something that causes strong emotions.
- "Inerasable" means something that cannot be erased, which directly matches "indelible."
- "Lasting" refers to something that endures, but it does not always imply it cannot be erased.

#### Quick Tip

"Indelible" refers to something that cannot be removed or erased, making "inerasable" the most accurate synonym.

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### 13. It depends on whether we get \_\_\_\_\_ down by failures or use them as stepping-stones.

- (A) wretched
- (B) bogged
- (C) squirted
- (D) eluded

**Correct Answer:** (B) bogged

**Solution:** The phrase "bogged down" means to become stuck or overwhelmed, especially by difficulties.

- "Wretched" refers to something very bad or unfortunate, but doesn't fit the context here.
- "Bogged" fits perfectly with the phrase "bogged down," implying being stuck or hindered by failures.
- "Squirted" means to eject liquid forcefully and is irrelevant here.
- "Eluded" means to escape or evade, which doesn't fit the context either.

#### Quick Tip

"Bogged down" is a common phrase used to describe a situation where progress is hindered or slowed, especially by problems or difficulties.

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### 14. Which one of the following is an antonym to the word conflict?

- (A) battle
- (B) clash
- (C) agreement
- (D) struggle

**Correct Answer:** (C) agreement

**Solution:** "Conflict" refers to a serious disagreement or clash, often resulting in a struggle.

- "Battle" and "clash" are both similar in meaning to "conflict."
- "Agreement" is the opposite of conflict, representing harmony or mutual understanding.
- "Struggle" is another term related to conflict, meaning a difficult effort.

**Quick Tip**

"Agreement" represents peace and mutual understanding, making it the correct antonym of "conflict," which signifies disagreement or opposition.

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**15. Change the present simple sentence "He writes a letter" into past simple sentence.**

- (A) He has written a letter
- (B) He wrote a letter
- (C) He write a letter
- (D) He send a written letter

**Correct Answer:** (B) He wrote a letter

**Solution:** To convert a present simple sentence into past simple, we change the verb to its past tense.

- "He wrote a letter" is the correct past simple form of "He writes a letter."
- "He has written a letter" is present perfect tense, which is incorrect here.
- "He write a letter" uses the present tense and is incorrect.
- "He send a written letter" is not grammatically correct.

### Quick Tip

To convert a present simple sentence to past simple, change the verb to its past form.

For "write," the past form is "wrote."

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### 16. Choose the word which is the exact OPPOSITE of the given word "EXODUS."

- (A) Influx
- (B) Home-coming
- (C) Return
- (D) Restoration

**Correct Answer:** (A) Influx

**Solution:** "Exodus" refers to the mass departure or emigration of people from a place.

- "Influx" refers to the arrival or entrance of large numbers of people or things, making it the opposite of "exodus."
- "Home-coming," "Return," and "Restoration" could be related to the idea of coming back, but they don't fit as perfectly as "influx."

### Quick Tip

"Exodus" implies mass departure, and "Influx" refers to a large arrival, making them perfect opposites.

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### 17. Arrange the following components (1,2,3 and 4) in proper sentence to obtain a correct sentence.

1. every year many students from
  2. appear the SSC Examination
  3. held on all India basis
  4. all over the country
- (A) 1,3,2,4  
(B) 1,4,3,2

- (C) 1,2,3,4
- (D) 1,4,2,3

**Correct Answer:** (D) 1,4,2,3

**Solution:** The sentence should be logically structured: - "Every year" starts the sentence.  
- "From all over the country" indicates where the students come from.  
- "Appear the SSC Examination" indicates what the students do.  
- "Held on an all India basis" completes the meaning.

**Quick Tip**

For sentence construction, pay attention to the logical flow. Start with the time, followed by the subject, action, and completion.

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**18. Select the correctly spelled word.**

- (A) rhyeme
- (B) rhythm
- (C) rythm
- (D) rythem

**Correct Answer:** (B) rhythm

**Solution:** The correct spelling is "rhythm," referring to a repeated pattern of sound or movement.

The other options are incorrect spellings of the word.

**Quick Tip**

"Rhythm" is a tricky word that is commonly misspelled. Remember, it contains "ythm" and not "ryth" or "rhy."

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**19. Change the sentence "Drinking alcohol is a bad habit" into an interrogative sentence.**

- (A) Do you drink alcohol ?
- (B) Is not drinking alcohol a bad habit?
- (C) Do not drink alcohol
- (D) Is it a bad habit?

**Correct Answer:** (B) Is not drinking alcohol a bad habit?

**Solution:** To convert a statement into an interrogative, we usually invert the subject and auxiliary verb.

”Is not drinking alcohol a bad habit?” correctly turns the statement into a question.

**Quick Tip**

When turning a statement into a question, start with the auxiliary verb (”is”) and invert it with the subject (”drinking alcohol”).

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**20. Find out the correct preposition.** He wants to be \_\_\_\_\_ the party.

- (A) with
- (B) of
- (C) from
- (D) at

**Correct Answer:** (D) at

**Solution:** The correct preposition in this context is ”at,” which is used to indicate a position or presence at a location or event.

- ”With” refers to accompaniment, ”of” indicates possession, and ”from” indicates origin, none of which fit the context of being at an event.

**Quick Tip**

”At” is used to indicate someone’s presence at a specific event or location, such as ”at the party.”

**21. Choose the appropriate meaning of the idiom "Make up one's mind."**

- (A) to be prepared
- (B) to make someone happy
- (C) make a decision
- (D) to criticize someone

**Correct Answer:** (C) make a decision

**Solution:** The idiom "make up one's mind" means to make a decision or choose one option after considering others.

- "To be prepared" means to get ready for something, but it doesn't relate to making a choice.
- "To make someone happy" refers to causing someone else to feel joy, which is not the meaning of the idiom.
- "Make a decision" is the correct meaning of "make up one's mind," as it refers to deciding on something after thinking it through.
- "To criticize someone" means to find fault with someone, which does not relate to the idiom.

**Quick Tip**

"Make up one's mind" is a common idiom that refers to deciding or choosing between options.

**22. Convert the sentence into DIRECT SPEECH: "He said that he went to park every day."**

- (A) He said, " he used to park every day"
- (B) He said, " I will go to park every day"
- (C) He said, " he goes to park every day"
- (D) He said, " I go to park every day"

**Correct Answer:** (D) He said, " I go to park every day"

**Solution:** When converting a sentence into direct speech, we maintain the present tense from reported speech.

- "He said, 'I go to park every day'" is the correct conversion as we change the past tense ("went") into the present tense ("go").
- The other options use incorrect tenses or change the meaning of the sentence.

#### Quick Tip

In direct speech, maintain the tense of the reported speech. In this case, "went" becomes "go" in direct speech.

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#### 23. Convert the sentence into Passive Voice: "I must do it."

- (A) It must be done by me
- (B) It has to be done by me.
- (C) It is to be done by him
- (D) It must be done by him

**Correct Answer:** (A) It must be done by me

**Solution:** To convert to passive voice, make the object the subject of the sentence and adjust the verb.

- "It must be done by me" is the correct passive construction of "I must do it."
- The other options use incorrect forms or do not match the subject of the original sentence.

#### Quick Tip

In passive voice, the object of the active sentence becomes the subject, and the verb is adjusted accordingly.

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#### 24. Convert the sentence into DIRECT SPEECH: "He has said that he reads a novel every month."

- (A) He has said " I do not read a novel every month"
- (B) He has said " he reads a novel every month"
- (C) He has said " he read a novel every month"

(D) He has said “ I read a novel every month”

**Correct Answer:** (D) He has said “ I read a novel every month”

**Solution:** In direct speech, we remove reporting verbs like ”said” and keep the sentence structure as is.

- ”He has said, ‘I read a novel every month’” is the correct conversion, using the present tense for direct speech.
- The other options either incorrectly change the verb tense or add negative elements.

#### Quick Tip

In direct speech, the verb tense is usually the same as in the original sentence, and we remove the reporting verb ”that.”

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## 25. Pick the word/phrase which is opposite in meaning to the given word

**”ASPIRATION.”**

- (A) dislike
- (B) eagerness
- (C) passion
- (D) objective

**Correct Answer:** (A) dislike

**Solution:** ”Aspiration” refers to a strong desire or ambition to achieve something.

- ”Dislike” is the opposite of ”aspiration,” as it refers to a lack of interest or desire.
- The other options (”eagerness,” ”passion,” ”objective”) all imply desire or goals, which are related to ”aspiration.”

#### Quick Tip

”Aspiration” refers to a strong desire to achieve something, and ”dislike” represents a lack of desire, making it the opposite.

**26. Choose the appropriate meaning of the idiom/phrase "Caught between two stools."**

- (A) met with an accident
- (B) difficulty in choosing between two alternatives
- (C) struck in a calamity
- (D) doing two things at a time

**Correct Answer:** (B) difficulty in choosing between two alternatives

**Solution:** "Caught between two stools" means being in a situation where you are forced to choose between two options, but both are difficult or unappealing.

- "Met with an accident" refers to being involved in a mishap, which is unrelated to the idiom.
- "Difficulty in choosing between two alternatives" is the correct meaning of the idiom.
- "Struck in a calamity" and "doing two things at a time" do not match the meaning of this idiom.

**Quick Tip**

When caught between two stools, you face a dilemma where neither option seems ideal.

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**27. Select the correctly spelled word.**

- (A) occurred
- (B) occured
- (C) occurred
- (D) ocured

**Correct Answer:** (C) occurred

**Solution:** The correct spelling is "occurred," with double "c" and double "r."

The other options are misspelled variations of the word.

**Quick Tip**

When spelling "occurred," remember it has two "c"s and two "r"s.

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**28. Choose the correct alternative which can be substituted for the given word in the bracket to make the sentence meaningful:**

The seniors \_\_\_\_\_ (apology) for their rude behavior with juniors.

- (A) apologising
- (B) apologetic
- (C) apologized
- (D) apologetic

**Correct Answer:** (C) apologized

**Solution:** The correct word to fill the blank is "apologized," which is the correct form of the verb to indicate that the seniors expressed regret for their actions.

- "Apologising" is the present participle, which doesn't fit the sentence structure.
- "Apologetic" refers to being regretful, but it doesn't fit grammatically in the sentence.

**Quick Tip**

Use the past tense form "apologized" to show an action that has already taken place.

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**29. Find the odd term from the given 4 options which does not belong to the group of remaining options.**

- (A) Vulture
- (B) Doves
- (C) Kingfishers
- (D) Kiwi

**Correct Answer:** (D) Kiwi

**Solution:** "Vulture," "Doves," and "Kingfishers" are all types of birds that are commonly found in various parts of the world.

"Kiwi" refers to a bird native to New Zealand, which makes it the odd one out because it is not as widespread as the other birds.

### Quick Tip

When identifying odd terms, consider geographical location or the type of species. In this case, "Kiwi" is a New Zealand-native bird.

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### 30. Convert the sentence into Passive Voice: "Take food on time."

- (A) Food should be take early
- (B) Food takes on time
- (C) Food should be taken on time
- (D) timely food is must

**Correct Answer:** (C) Food should be taken on time

**Solution:** In passive voice, we focus on the object (food) and make it the subject of the sentence. The verb "take" changes to "taken" in passive form.

- "Food should be taken on time" correctly follows the passive voice construction.
- The other options either use incorrect verb forms or do not correctly convey the meaning in passive voice.

### Quick Tip

In passive voice, the object becomes the subject and the verb is adjusted accordingly.

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### 31. Convert the sentence into Active Voice: "The snake was killed by the dog."

- (A) The dog killed the snake
- (B) The dog kills the snake
- (C) The snake is killed by him
- (D) The dog has killed the snake

**Correct Answer:** (A) The dog killed the snake

**Solution:** In active voice, the subject (dog) performs the action.

- "The dog killed the snake" is the correct active voice conversion, where the dog is the subject and performs the action.

- The other options either do not match the correct tense or do not change the sentence into active voice properly.

#### Quick Tip

To convert a sentence to active voice, make the subject perform the action, and ensure that the verb tense remains consistent.

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### 32. Which one of the following is a correctly spelled word?

- (A) Mateorology
- (B) meteoralogy
- (C) meteorology
- (D) meterology

**Correct Answer:** (C) meteorology

**Solution:** "Meteorology" is the correct spelling, referring to the scientific study of the atmosphere and weather patterns.

The other options are misspelled and do not represent the correct term.

#### Quick Tip

To avoid spelling mistakes, remember that "meteorology" contains "e" after "t" and ends with "ology."

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### 33. Which one of the following is an antonym to the word "hilarious"?

- (A) Entertaining
- (B) lively
- (C) amusing
- (D) sad

**Correct Answer:** (D) sad

**Solution:** "Hilarious" means something that is very funny or amusing.

- "Sad" is the correct antonym of "hilarious" as it refers to something that causes unhappiness, the opposite of something funny.
- "Entertaining," "lively," and "amusing" are all synonyms of "hilarious."

#### Quick Tip

"Hilarious" is used for something extremely funny, so the antonym will be related to sadness or lack of humor.

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#### 34. Find out the correct preposition: "She wants to jump \_\_\_\_\_ the swimming pool."

- (A) of
- (B) with
- (C) into
- (D) out

**Correct Answer:** (C) into

**Solution:** "Into" is the correct preposition when indicating movement towards the inside of something, such as jumping into a pool.

- "Of" refers to possession or origin, which doesn't fit here.
- "With" refers to accompaniment, and "out" refers to leaving or moving away, which do not fit the context.

#### Quick Tip

Use "into" to describe movement from outside to inside, such as "jump into the pool."

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#### 35. Choose the words for each blank that best fit the meaning of the sentence as a whole: Violence \_\_\_\_\_ the prison has \_\_\_\_\_ three lives.

- (A) in, taken
- (B) from, expired
- (C) of, cost
- (D) with, removed

**Correct Answer:** (A) in, taken

**Solution:** "In" refers to the location where the violence occurred (inside the prison).

"Taken" refers to lives lost.

- "From" would refer to the origin, which doesn't fit in this context.

- "Cost" is more appropriate for something valuable like money, but "taken" fits better for lives lost.

**Quick Tip**

"Taken" is commonly used when referring to lives lost, such as "taken by violence."

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**36. Choose the words for each blank that best fit the meaning of the sentence as a whole:**

The disease \_\_\_\_\_ widely all \_\_\_\_\_ the district.

- (A) expands, from
- (B) spreads, over
- (C) goes, in
- (D) attack, with

**Correct Answer:** (B) spreads, over

**Solution:** "Spreads" means to move or extend over an area, and "over" is the correct preposition to indicate the distribution across the district.

- "Expands" is not typically used for diseases, and "from" refers to the origin, not the spread.

- "Goes" and "in" are not appropriate for describing the spread of a disease.

**Quick Tip**

"Spreads over" is a common expression for something (like a disease) affecting a large area.

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**37. Choose the word for the blank that best fit the meaning of the sentence as a whole:**

The main road was blocked for three hours today morning after an accident \_\_\_\_\_ two cars.

- (A) including
- (B) seeing
- (C) involving
- (D) connecting

**Correct Answer:** (C) involving

**Solution:** "Involving" is used to describe an event that includes certain people or things, in this case, two cars.

- "Including" is used for lists, but it doesn't work well in this context. - "Seeing" and "connecting" are incorrect in describing an accident between cars.

**Quick Tip**

"Involving" is the correct term to use when describing an incident or event that includes certain people or things.

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**38. Convert the sentence into Active Voice: "The surgery was performed by a team of doctors."**

- (A) A team of doctors perform the surgery
- (B) A team of doctors performed the surgery
- (C) A team of doctors has performed the surgery
- (D) A team of doctors have performed the surgery

**Correct Answer:** (B) A team of doctors performed the surgery

**Solution:** To convert to active voice, make the subject (the team of doctors) perform the action.

- "A team of doctors performed the surgery" is the correct active voice conversion.  
- The other options either use incorrect verb forms or do not follow proper sentence structure.

### Quick Tip

In active voice, the subject performs the action, so the verb form should be in the past tense.

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### 39. Choose the word for the blank that best fit the meaning of the sentence as a whole:

Many university courses are not really \_\_\_\_\_ to meet the needs of students seeking for employment.

- (A) required
- (B) sufficient
- (C) demanded
- (D) omitted

**Correct Answer:** (B) sufficient

**Solution:** "Sufficient" means enough or adequate to meet the needs.

- "Required" refers to something needed but doesn't fit as well in this context. - "Demanded" means something that is asked for, but it doesn't convey the meaning of being adequate for students' needs. - "Omitted" means to leave out, which doesn't fit the context.

### Quick Tip

"Sufficient" refers to having enough of something to meet a particular need or purpose.

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### 40. Choose the correct word from the options which is similar to the word given in **italics** in the sentence:

**The students are 'instructed' to attend the classes regularly.**

- (A) avoided
- (B) allowed
- (C) ignored
- (D) directed

**Correct Answer:** (D) directed

**Solution:** "Instructed" means to direct or guide someone on what to do.

- "Directed" is the best synonym for "instructed" in this context.
- "Avoided" and "ignored" have opposite meanings. - "Allowed" means to permit, which is not the same as "instructed."

#### Quick Tip

"Instructed" is similar to "directed," as both words imply guiding or giving directions.

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#### 41. Choose the word for the blank that best fit the meaning of the sentence as a whole:

After the Cabinet reshuffle, the Minister was not happy with his new \_\_\_\_\_.

- (A) employment
- (B) place
- (C) work
- (D) portfolio

**Correct Answer:** (D) portfolio

**Solution:** The word "portfolio" is the best fit in this context as it refers to the collection of responsibilities or duties assigned to someone, especially in a government position.

- "Employment" refers to the state of being employed, but doesn't fit the context of Cabinet reshuffle.
- "Place" and "work" don't specifically relate to the official duties of a minister.

#### Quick Tip

"Portfolio" refers to the set of responsibilities or roles assigned to a minister or official.

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#### 42. Rearrange the parts to form a meaningful and coherent sentence: P: in the building

Q: collapsed R: the temporary sheds S: in the rain

- (A) QRPS
- (B) QSRP
- (C) RPQS

(D) QPRS

**Correct Answer:** (C) RPQS

**Solution:** The sentence should begin with "The temporary sheds," followed by the action "collapsed," indicating what happened. The context of the rain provides additional information at the end.

- "RPQS" forms the correct sentence: "The temporary sheds collapsed in the building in the rain."

**Quick Tip**

When rearranging sentences, focus on establishing the subject, verb, and then adding details about the action.

---

**43. Rearrange the parts to form a meaningful and coherent sentence:** P: restless Q: his piece of mind R: he becomes S: and loses

- (A) RPSQ
- (B) QSRP
- (C) SQRP
- (D) RPQS

**Correct Answer:** (A) RPSQ

**Solution:** The sentence starts with "He becomes restless," followed by the consequence "loses his peace of mind."

- "RPSQ" forms the correct sentence: "He becomes restless and loses his peace of mind."

**Quick Tip**

Start with the subject and verb in rearrangement and add the condition or consequence at the end for clarity.

---

**44. Choose the word similar in meaning to the given word "LAX."**

- (A) ensure
- (B) slack
- (C) servant
- (D) strive

**Correct Answer:** (B) slack

**Solution:** "Lax" refers to something that is careless, negligent, or not strict.

- "Slack" is the correct synonym, meaning lazy or not tight. - "Ensure," "servant," and "strive" are unrelated to the meaning of "lax."

**Quick Tip**

"Lax" refers to a lack of strictness or diligence, and "slack" is a synonym for being loose or negligent.

---

**45. Choose the word similar in meaning to the given word "PERSPICUOUS."**

- (A) cruel
- (B) clever
- (C) dim
- (D) clear

**Correct Answer:** (D) clear

**Solution:** "Perspicuous" means clear, easy to understand.

- "Clear" is the correct synonym of "perspicuous." - "Cruel," "clever," and "dim" are unrelated to clarity or understanding.

**Quick Tip**

"Perspicuous" means clear and easily understood, which is synonymous with "clear."

---

**46. Read the passage and answer the question:**

**In today's situation where the awareness and interest in reading about archaeology are increasing, new articles on our heritage have to be published in newspapers.**

**Understanding history and myths requires understanding the new developments in archaeology and new trends in technology.**

**The above passage urges the need for the study of**

- (A) politics
- (B) history
- (C) archaeology
- (D) environment

**Correct Answer:** (C) archaeology

**Solution:** The passage mentions the increasing interest in archaeology and the need for articles on heritage to be published.

- The primary focus of the passage is archaeology, which is the study urged for.

**Quick Tip**

Focus on keywords in the passage, such as "archaeology" and "heritage," to identify the subject of the study.

---

**47. Read the passage and answer the question:**

**Colds and flu are viral infections of the upper respiratory tract. They are extremely contagious. They are spread by airborne droplets of mucus. The virus can also be passed on by physical contact if the recipients pick up the virus on their hand and rub their eyes or nose.**

**This passage primarily focused on**

- (A) the contagious diseases
- (B) the spread of common viruses
- (C) health issues
- (D) spread of colds and flu infections

**Correct Answer:** (D) spread of colds and flu infections

**Solution:** The passage discusses how colds and flu spread, highlighting airborne droplets and physical contact.

- The main focus of the passage is on the spread of colds and flu infections.

**Quick Tip**

When reading passages about diseases, focus on keywords related to transmission and symptoms to identify the central theme.

---

**48. Read the passage and answer the question:**

**A psychotropic drug is a chemical substance that changes the function of the nervous system. If the charges under the Narcotics Drugs and Psychotropic substances Act are proved, the accused will get a deterrent punishment. Police will take in drug addicts and admit them in centres for rehabilitation. This passage primarily focused on**

- (A) medical use of drugs
- (B) drug abuse
- (C) punishment
- (D) law and order

**Correct Answer:** (B) drug abuse

**Solution:** The passage focuses on the issue of drug abuse and the legal consequences for those involved.

- The central theme of the passage is drug abuse, including legal actions and rehabilitation for addicts.

**Quick Tip**

Look for clues about consequences, rehabilitation, and legal aspects when identifying the focus of a passage on drugs.

---

**49. Read the passage and answer the question:**

**Animals are the most adorable and loving creatures existing on Earth. They may not be able to speak but they can understand. Domestic animals mostly move with humans. Wild animals generally live in forests. Animals play a vital role in maintaining nature's balance.**

**This passage primarily focused on the importance of**

- (A) domestic animals alone
- (B) forests
- (C) wild animals only
- (D) animals

**Correct Answer:** (D) animals

**Solution:** The passage talks about both domestic and wild animals and their role in maintaining nature's balance.

- The primary focus is on the importance of animals in general.

**Quick Tip**

When a passage talks about both types of animals, focus on the overall theme about the importance of animals rather than one specific category.

---

**50. Read the passage and answer the question:**

**The Reserve Bank of India was established in the year 1935. The Central office of RBI is in Mumbai. The main function of the Reserve Bank of India is to regulate the issue of Bank Notes and keeping of reserves with a view to securing monetary stability in India. It generally operates the currency and credit system of the country to its advantage. In this passage, 'Bank Notes' refers to**

- (A) goods and services
- (B) currency notes
- (C) circulars sent by the Banks
- (D) file notes

**Correct Answer:** (B) currency notes

**Solution:** "Bank Notes" in the passage refers to the money issued by the Reserve Bank of India.

- "Currency notes" is the correct term for paper money issued by the central bank.
- The other options do not relate to the concept of money in circulation.

**Quick Tip**

"Bank Notes" refers to paper money issued by central banks, not documents or other items.

---

**51. If  $x + y = 2$  and  $x^2 + y^2 = 2$ , what is the value of  $xy$ ?**

- (A) -2
- (B) -1
- (C) 0
- (D) 1

**Correct Answer:** (D) 1

**Solution:** We are given the following two equations:

$$x + y = 2 \quad (1)$$

$$x^2 + y^2 = 2 \quad (2)$$

To find  $xy$ , we use the identity:

$$(x + y)^2 = x^2 + y^2 + 2xy$$

Substitute the values from equations (1) and (2):

$$(2)^2 = 2 + 2xy$$

$$4 = 2 + 2xy$$

Simplify the equation to solve for  $xy$ :

$$4 - 2 = 2xy \quad \Rightarrow \quad 2 = 2xy$$

$$xy = 1$$

### Quick Tip

Use the identity  $(x + y)^2 = x^2 + y^2 + 2xy$  to relate the sum and squares of two variables to their product.

---

**52. Rs.10000 is invested for 4 years and nine months at 10% simple interest. The interest amount at the end of the period is**

- (A) Rs.4750
- (B) Rs.4160
- (C) Rs.4760
- (D) Rs.4260

**Correct Answer:** (A) Rs.4750

**Solution:** Simple Interest formula is:

$$I = \frac{P \times R \times T}{100}$$

where  $P = 10000$ ,  $R = 10\%$ , and  $T = 4 \text{ years} + \frac{9}{12} \text{ years} = 4.75 \text{ years}$ .

Substitute the values in the formula:

$$I = \frac{10000 \times 10 \times 4.75}{100} = 4750$$

### Quick Tip

For simple interest, use the formula  $I = \frac{P \times R \times T}{100}$ . Ensure the time is in years.

---

**53. Rs.1000 was deposited in a bank for 2 years at 5% compound interest. At the end of the second year, the maturity amount will be**

- (A) Rs. 1110.50
- (B) Rs. 1120
- (C) Rs. 1220.50
- (D) Rs. 1102.50

**Correct Answer:** (D) Rs. 1102.50

**Solution:** Compound Interest formula is:

$$A = P \left(1 + \frac{R}{100}\right)^T$$

where  $P = 1000$ ,  $R = 5\%$ , and  $T = 2$  years.

Substitute the values in the formula:

$$A = 1000 \left(1 + \frac{5}{100}\right)^2 = 1000 (1.05)^2 = 1000 \times 1.1025 = 1102.50$$

**Quick Tip**

For compound interest, use the formula  $A = P \left(1 + \frac{R}{100}\right)^T$ .

---

**54. If  $a : 3 = 24 : 9$ , then  $a$  is equal to**

- (A) 8
- (B) 9
- (C) 7
- (D) 10

**Correct Answer:** (A) 8

**Solution:** We have the proportion:

$$\frac{a}{3} = \frac{24}{9}$$

Simplify the ratio  $\frac{24}{9} = \frac{8}{3}$ , so we get:

$$\frac{a}{3} = \frac{8}{3}$$

Cross-multiply to solve for  $a$ :

$$a = 8$$

**Quick Tip**

To solve ratios, cross-multiply the values and solve for the unknown variable.

---

**55. If  $A : B = 3 : 4$  and  $B : C = 5 : 7$ , then  $A : B : C$  is equal to**

- (A)  $8 : 12 : 18$
- (B)  $6 : 9 : 13$
- (C)  $6 : 9 : 26$
- (D)  $15 : 20 : 28$

**Correct Answer:** (D)  $15 : 20 : 28$

**Solution:** To combine the ratios, first express  $B$  in the same terms for both ratios:

$$A : B = 3 : 4 \quad \text{and} \quad B : C = 5 : 7$$

Multiply the first ratio by 5 and the second by 4 to make  $B$  the same:

$$A : B = 15 : 20 \quad \text{and} \quad B : C = 20 : 28$$

Therefore,  $A : B : C = 15 : 20 : 28$ .

**Quick Tip**

To combine two ratios, make sure the common term (in this case,  $B$ ) is the same by multiplying both ratios appropriately.

---

**56. A box contains coins of Rs.10, Rs.20, and Rs.5 respectively in the ratio  $4 : 5 : 6$ . If the total number of coins in the box is 120, then the value of all coins in the box is**

- (A) 1160
- (B) 1260
- (C) 1360
- (D) 1420

**Correct Answer:** (C) 1360

**Solution:** The ratio of the coins is  $4 : 5 : 6$ . The total number of coins is 120. Let the number of coins be  $4x$ ,  $5x$ , and  $6x$ .

$$4x + 5x + 6x = 120$$

Solve for  $x$ :

$$15x = 120 \Rightarrow x = 8$$

The number of coins for each denomination is: - Rs.10 coins =  $4x = 4 \times 8 = 32$  coins. -  
Rs.20 coins =  $5x = 5 \times 8 = 40$  coins. - Rs.5 coins =  $6x = 6 \times 8 = 48$  coins.

The total value is:

$$\text{Value} = 32 \times 10 + 40 \times 20 + 48 \times 5 = 320 + 800 + 240 = 1360$$

### Quick Tip

Use the ratio to divide the total number of items and then calculate the value based on the number of items and their respective values.

---

### 57. Of the following, which is least?

- (A)  $\frac{0.03}{0.00071}$
- (B)  $\frac{0.03}{0.0071}$
- (C)  $\frac{0.03}{0.071}$
- (D)  $\frac{0.03}{7.1}$

**Correct Answer:** (D)  $\frac{0.03}{7.1}$

**Solution:** Compute each option:

- $\frac{0.03}{0.00071} \approx 42.25$
- $\frac{0.03}{0.0071} \approx 4.23$
- $\frac{0.03}{0.071} \approx 0.423$
- $\frac{0.03}{7.1} \approx 0.00423$

The least value is 0.00423, which corresponds to option (D).

### Quick Tip

To compare fractions, divide the numerator by the denominator and identify the smallest value.

**58. A group of store managers must assemble 280 displays for an upcoming sale. If they assemble 25 percent of the displays during the first hour and 40 percent of the remaining displays during the second hour, how many of the displays will not have been assembled by the end of the second hour?**

- (A) 70
- (B) 98
- (C) 126
- (D) 182

**Correct Answer:** (C) 126

**Solution:** 25% of 280 is assembled in the first hour:

$$0.25 \times 280 = 70$$

After the first hour,  $280 - 70 = 210$  displays remain. In the second hour, 40% of the remaining 210 displays are assembled:

$$0.40 \times 210 = 84$$

Total displays assembled in 2 hours:

$$70 + 84 = 154$$

Displays not assembled:

$$280 - 154 = 126$$

**Quick Tip**

To find how many displays remain, first calculate what has been assembled and subtract from the total.

---

**59. A company plans to produce 1500 units of an item per hour and plans to send out 700 units of the item per hour from the company for sales. The number of units available in the company at the end of 10 hours is**

- (A) 15000 units

- (B) 12000 units
- (C) 10000 units
- (D) 8000 units

**Correct Answer:** (D) 8000 units

**Solution:** In 10 hours, the company produces:

$$1500 \times 10 = 15000 \text{ units}$$

In 10 hours, the company sends out:

$$700 \times 10 = 7000 \text{ units}$$

The remaining units are:

$$15000 - 7000 = 8000 \text{ units}$$

**Quick Tip**

To find remaining units, subtract the total number sent out from the total produced.

---

**60. A person owns 2 rectangular tracts of land. One is 300 m by 500 m and the other is 250 m by 630 m. The combined area of these 2 tracts is in square meters?**

- (A) 305700
- (B) 307500
- (C) 370500
- (D) 350700

**Correct Answer:** (B) 307500

**Solution:** Area of the first tract:

$$300 \times 500 = 150000 \text{ sq. m.}$$

Area of the second tract:

$$250 \times 630 = 157500 \text{ sq. m.}$$

Combined area:

$$150000 + 157500 = 307500 \text{ sq. m.}$$

**Quick Tip**

To find the combined area of two rectangular tracts, simply add their individual areas.

---

**61. If four fifths of a number is 24800, then two fifths of the same number is**

- (A) 18400
- (B) 13400
- (C) 12400
- (D) 12475

**Correct Answer:** (C) 12400

**Solution:** Let the number be  $x$ . We are given that:

$$\frac{4}{5} \times x = 24800$$

Solve for  $x$ :

$$x = \frac{24800 \times 5}{4} = 31000$$

Now, we need to find  $\frac{2}{5}$  of  $x$ :

$$\frac{2}{5} \times 31000 = 12400$$

**Quick Tip**

To find a fraction of a number, multiply the number by the fraction.

---

**62. A can complete a work in 30 days and B can complete the same work in 20 days. If A and B work together, the number of days required for them to complete the work is**

- (A) 25 days
- (B) 12 days
- (C) 15 days

(D) 16 days

**Correct Answer:** (B) 12 days

**Solution:** The rate of work for A is  $\frac{1}{30}$  per day and for B is  $\frac{1}{20}$  per day.

Together, their combined rate of work is:

$$\frac{1}{30} + \frac{1}{20} = \frac{2}{60} + \frac{3}{60} = \frac{5}{60} = \frac{1}{12}$$

The time taken to complete the work is the reciprocal of the combined rate, i.e., 12 days.

**Quick Tip**

When two people work together, add their individual work rates to find the combined rate. The time taken is the reciprocal of the combined rate.

---

**63. A rope 20.6 meters long is cut into two pieces. If the length of one piece of rope is 2.8 meters shorter than the length of the other, what is the length, in meters, of the longer piece of rope?**

- (A) 7.5
- (B) 8.9
- (C) 9.9
- (D) 11.7

**Correct Answer:** (D) 11.7

**Solution:** Let the length of the longer piece be  $x$ . Then the length of the shorter piece is  $x - 2.8$ . The total length of the rope is 20.6 meters, so:

$$x + (x - 2.8) = 20.6$$

Simplify the equation:

$$2x - 2.8 = 20.6 \quad \Rightarrow \quad 2x = 23.4 \quad \Rightarrow \quad x = 11.7$$

### Quick Tip

When dividing a total length into two pieces, create an equation based on the given relationship between the pieces and solve for the unknown length.

**64. The annual budget of a certain college is to be shown on a circle graph. If the size of each sector of the graph is to be proportional to the amount of the budget it represents, how many degrees of the circle should be used to represent an item that is 15 percent of the budget?**

- (A) 15
- (B) 36
- (C) 54
- (D) 90

**Correct Answer:** (C) 54

**Solution:** The total angle of a circle is 360 degrees. If the item represents 15% of the budget, the angle for this item is:

$$\text{Angle} = \frac{15}{100} \times 360 = 54 \text{ degrees}$$

### Quick Tip

To find the angle for a portion of a circle, multiply the percentage by 360 degrees.

**65. If the student A scored 34 marks out of 50 in one subject and scored 70 marks out of 80 in another subject, then the percentage of marks scored by him is**

- (A) 70
- (B) 80
- (C) 75
- (D) 85

**Correct Answer:** (B) 80

**Solution:** The percentage for the first subject is:

$$\frac{34}{50} \times 100 = 68\%$$

The percentage for the second subject is:

$$\frac{70}{80} \times 100 = 87.5\%$$

The overall percentage is the weighted average:

$$\frac{34 + 70}{50 + 80} \times 100 = \frac{104}{130} \times 100 = 80\%$$

#### Quick Tip

To find the overall percentage from multiple subjects, calculate the weighted average based on total marks and total possible marks.

---

**66. If  $t\%$  of 40% of 100 is equal to 20% of 300, then the value of  $t$  is**

- (A) 150
- (B) 155
- (C) 125
- (D) 225

**Correct Answer:** (A) 150

**Solution:** We are given the equation  $t\%$  of 40% of 100 is equal to 20% of 300. Let us first express both sides of the equation mathematically.

The left side is:

$$\frac{t}{100} \times (40\% \times 100) = \frac{t}{100} \times 40$$

Simplifying this:

$$\frac{t}{100} \times 40 = \frac{40t}{100} = \frac{2t}{5}$$

The right side is:

$$20\% \times 300 = \frac{20}{100} \times 300 = 60$$

Now we equate both sides of the equation:

$$\frac{2t}{5} = 60$$

Multiply both sides of the equation by 5 to eliminate the denominator:

$$2t = 60 \times 5 = 300$$

**Step 4:** Divide both sides by 2 to solve for  $t$ :

$$t = \frac{300}{2} = 150$$

**Quick Tip**

To solve percentage problems, simplify the equation step by step, focusing on reducing percentages to decimals when necessary.

---

**67. Now, the age of the Father and that of his Son are in the ratio 7 : 2. After 10 years, the ratio will become 9 : 4. The present age of the son is (in years)**

- (A) 25
- (B) 10
- (C) 15
- (D) 8

**Correct Answer:** (B) 10

**Solution:** Let the present age of the son be  $2x$  and the father be  $7x$ . After 10 years, their ages will be  $2x + 10$  and  $7x + 10$ .

The ratio after 10 years is given as  $\frac{7x+10}{2x+10} = \frac{9}{4}$ . Solve this equation:

$$4(7x + 10) = 9(2x + 10)$$

$$28x + 40 = 18x + 90 \quad \Rightarrow \quad 10x = 50 \quad \Rightarrow \quad x = 5$$

The present age of the son is  $2x = 10$ .

### Quick Tip

For age-related ratio problems, set up an equation based on the given ratio and solve for the unknown variable.

**68. Five machines at a certain factory operate at the same constant rate. If four of these machines, operating simultaneously, take 30 hours to fill a certain production order, how many fewer hours does it take all five machines, operating simultaneously, to fill the same production order?**

- (A) 3
- (B) 5
- (C) 6
- (D) 8

**Correct Answer:** (C) 6

**Solution:** The work done by four machines in 30 hours is the same as the total work done. The rate of work for four machines is  $\frac{1}{30}$  of the total work per hour. The rate of work for one machine is:

$$\frac{1}{30} \times \frac{1}{4} = \frac{1}{120} \text{ (per hour)}$$

The rate of work for five machines working together is:

$$5 \times \frac{1}{120} = \frac{5}{120} = \frac{1}{24} \text{ (per hour)}$$

The number of hours for five machines to complete the work is the reciprocal of  $\frac{1}{24}$ , which is 24 hours.

The time difference is:

$$30 - 24 = 6 \text{ hours}$$

### Quick Tip

To calculate time saved when more machines work together, find the combined rate of work and subtract the time it takes for more machines from the time it takes for fewer machines.

---

**69. A certain bridge is 4,024 feet long. Approximately how many minutes does it take to cross this bridge at a constant speed of 20 miles per hour? (1 mile = 5,280 feet)**

- (A) 1.7
- (B) 2.3
- (C) 4.2
- (D) 6.1

**Correct Answer:** (B) 2.3

**Solution:** Convert the speed from miles per hour to feet per minute:

$$20 \text{ miles per hour} = 20 \times 5280 \text{ feet per hour} = 105600 \text{ feet per hour}$$

$$\text{Feet per minute} = \frac{105600}{60} = 1760 \text{ feet per minute}$$

The time to cross the bridge is the length of the bridge divided by the speed:

$$\text{Time} = \frac{4024}{1760} \approx 2.3 \text{ minutes}$$

**Quick Tip**

To convert speed from miles per hour to feet per minute, multiply by 5280 and divide by 60. Then divide the distance by the speed to find the time.

---

**70. In the sequence 50, 50+k, 50+2k, 50+3k, 50+4k, ...., the 51st term is 350. Then the value of  $k$  is equal to**

- (A) 6
- (B) 8
- (C) 10
- (D) 15

**Correct Answer:** (A) 6

**Solution:** The general form for the  $n$ -th term of the sequence is:

$$\text{Term}_n = 50 + (n - 1)k$$

For the 51st term, we substitute  $n = 51$  and set the term equal to 350:

$$50 + (51 - 1)k = 350$$

$$50 + 50k = 350$$

Solve for  $k$ :

$$50k = 350 - 50 = 300 \Rightarrow k = \frac{300}{50} = 6$$

#### Quick Tip

To find the value of  $k$ , use the formula for the  $n$ -th term and substitute the known term to solve for  $k$ .

**71. Which one of the following numbers is divisible by 9, 11, and 13?**

- (A) 1286
- (B) 1287
- (C) 1289
- (D) 1283

**Correct Answer:** (B) 1287

**Solution:** To check divisibility by 9, 11, and 13, we find the least common multiple (LCM) of 9, 11, and 13. The LCM of 9, 11, and 13 is:

$$LCM(9, 11, 13) = 9 \times 11 \times 13 = 1287$$

Now, check if 1287 is divisible by 9, 11, and 13:

$$1287 \div 9 = 143, \quad 1287 \div 11 = 117, \quad 1287 \div 13 = 99$$

Thus, 1287 is divisible by all three numbers.

#### Quick Tip

To check divisibility by multiple numbers, first find their LCM and check if the given number is divisible by the LCM.

---

**72. A set A has 620 elements and another set B has 380 elements. If the union of the sets A and B has 950 elements, the number of common elements in A and B is equal to**

- (A) 50
- (B) 100
- (C) 75
- (D) 60

**Correct Answer:** (A) 50

**Solution:** The formula for the union of two sets is:

$$|A \cup B| = |A| + |B| - |A \cap B|$$

Substitute the known values:

$$950 = 620 + 380 - |A \cap B|$$

$$950 = 1000 - |A \cap B|$$

$$|A \cap B| = 1000 - 950 = 50$$

**Quick Tip**

To find the number of common elements in two sets, use the formula for the union of sets and solve for the intersection.

---

**73. How many numbers between 900 and 1000 are divisible by 13?**

- (A) 9
- (B) 11
- (C) 8
- (D) 7

**Correct Answer:** (D) 7

**Solution:** Find the smallest number greater than 900 that is divisible by 13:

$$\frac{900}{13} \approx 69.23 \quad \Rightarrow \quad 13 \times 70 = 910$$

Find the largest number less than 1000 that is divisible by 13:

$$\frac{1000}{13} \approx 76.92 \Rightarrow 13 \times 76 = 988$$

The numbers divisible by 13 between 900 and 1000 are: 910, 923, 936, 949, 962, 975, 988.

Thus, there are 7 numbers.

#### Quick Tip

To find how many numbers are divisible by a number in a range, find the first and last multiples and count the number of multiples in between.

**74. The annual interest rate earned by an investment increased by 10 percent from last year to this year. If the annual interest rate earned by the investment this year was 11 percent, what was the annual interest rate last year?**

- (A) 1%
- (B) 1.1%
- (C) 9.1%
- (D) 10%

**Correct Answer:** (D) 10%

**Solution:** Let the interest rate last year be  $x$ . According to the problem, the interest rate increased by 10%, so the interest rate this year is  $1.1x$ . We are given that the interest rate this year is 11%, so:

$$1.1x = 11$$

Solve for  $x$ :

$$x = \frac{11}{1.1} = 10$$

#### Quick Tip

To find the previous value after a percentage increase, divide the current value by  $1 +$  percentage increase as a decimal.

---

**75. Each machine at a toy factory assembles a certain kind of toy at a constant rate of one toy every 3 minutes. If 40 percent of the machines at the factory are to be replaced by new machines that assemble this kind of toy at a constant rate of one toy every 2 minutes, what will be the percent increase in the number of toys assembled in one hour by all the machines at the factory, working at their constant rates?**

- (A) 20%
- (B) 25%
- (C) 30%
- (D) 40%

**Correct Answer:** (A) 20%

**Solution:** Let the number of machines be  $m$ . The number of toys assembled by one machine in one hour is:

$$\frac{60}{3} = 20 \text{ toys per hour}$$

The total number of toys assembled by  $m$  machines in one hour is:

$$20m$$

After replacing 40% of the machines, the number of new machines is  $0.4m$ , and the old machines remain  $0.6m$ . The number of toys assembled by the new machines is:

$$\frac{60}{2} \times 0.4m = 30m$$

The total number of toys assembled by all the machines in one hour is:

$$30m + 20 \times 0.6m = 30m + 12m = 42m$$

The percent increase in the number of toys is:

$$\frac{42m - 20m}{20m} \times 100 = \frac{22m}{20m} \times 100 = 20\%$$

#### Quick Tip

To calculate the percent increase, first find the initial and final amounts, then use the formula  $\frac{\text{final} - \text{initial}}{\text{initial}} \times 100$ .

---

**76. Two buses start at 9AM from two different places on a straight road. The buses travel towards each other at uniform speeds of 45 kmph and 55 kmph respectively. If the two places are 200 km apart, the buses will meet at**

- (A) 11 PM
- (B) 10AM
- (C) 10.30 AM
- (D) 11 AM

**Correct Answer:** (D) 11 AM

**Solution:** The relative speed of the two buses is:

$$45 + 55 = 100 \text{ kmph}$$

The time taken for the buses to meet is:

$$\frac{200}{100} = 2 \text{ hours}$$

Since they start at 9 AM, they will meet at 9 AM + 2 hours = 11 AM.

**Quick Tip**

To calculate the time when two objects moving towards each other will meet, divide the distance by the sum of their speeds.

---

**77. A seller is to sell a product for Rs.  $x$ . But he sold it for Rs. 4000 with a 20% discount. Then  $x$  is**

- (A) Rs. 5600
- (B) Rs. 5000
- (C) Rs. 5400
- (D) Rs. 5200

**Correct Answer:** (B) Rs. 5000

**Solution:** Let the original price be  $x$ . A 20% discount means the seller sold it for 80% of the original price:

$$0.8x = 4000$$

Solve for  $x$ :

$$x = \frac{4000}{0.8} = 5000$$

**Quick Tip**

To find the original price after a discount, divide the selling price by  $1 - \text{discount percentage}$ .

---

**78. Half of a large pizza is cut into 4 equal-sized pieces, and the other half is cut into 6 equal-sized pieces. If a person were to eat 1 of the larger pieces and 2 of the smaller pieces, what fraction of the pizza would remain uneaten?**

- (A)  $\frac{5}{12}$
- (B)  $\frac{13}{24}$
- (C)  $\frac{7}{12}$
- (D)  $\frac{17}{24}$

**Correct Answer:** (D)  $\frac{17}{24}$

**Solution:** The pizza is divided into two halves. The first half is cut into 4 pieces, so each piece is  $\frac{1}{8}$  of the pizza. The second half is cut into 6 pieces, so each piece is  $\frac{1}{12}$  of the pizza. The person eats 1 of the larger pieces ( $\frac{1}{8}$ ) and 2 of the smaller pieces ( $2 \times \frac{1}{12} = \frac{2}{12} = \frac{1}{6}$ ). The total amount of pizza eaten is:

$$\frac{1}{8} + \frac{1}{6}$$

To add these fractions, find a common denominator:

$$\frac{1}{8} + \frac{1}{6} = \frac{3}{24} + \frac{4}{24} = \frac{7}{24}$$

The fraction of the pizza remaining uneaten is:

$$1 - \frac{7}{24} = \frac{17}{24}$$

### Quick Tip

To find the fraction of pizza remaining, subtract the eaten portions from the total (which is 1 or the whole pizza).

---

**79. A bag contains 15 White balls, 5 Red balls. A ball is drawn at random. Probability in percentage that the drawn ball be a white ball is**

- (A) 75%
- (B) 25%
- (C) 70%
- (D) 80%

**Correct Answer:** (A) 75%

**Solution:** The total number of balls is:

$$15 \text{ (white)} + 5 \text{ (red)} = 20 \text{ balls}$$

The probability of drawing a white ball is:

$$P(\text{white}) = \frac{15}{20} = \frac{3}{4}$$

To convert this probability into percentage:

$$P(\text{white}) = \frac{3}{4} \times 100 = 75\%$$

### Quick Tip

The probability of an event is the ratio of favorable outcomes to total outcomes. Multiply by 100 to convert it to a percentage.

---

**80. Two dice are rolled simultaneously. Find the probability that the sum of outcomes is 3.**

- (A)  $\frac{1}{9}$
- (B)  $\frac{1}{18}$

- (C)  $\frac{1}{12}$
- (D)  $\frac{1}{6}$

**Correct Answer:** (B)  $\frac{1}{18}$

**Solution:** The total number of outcomes when two dice are rolled is  $6 \times 6 = 36$ , as each die has 6 faces.

To find the favorable outcomes where the sum is 3, we look for all pairs of dice rolls that sum to 3:

$$(1, 2), (2, 1)$$

Thus, there are 2 favorable outcomes.

The probability is the ratio of favorable outcomes to total outcomes:

$$P(\text{sum} = 3) = \frac{2}{36} = \frac{1}{18}$$

#### Quick Tip

To find the probability of a specific sum in dice rolling, list all possible outcomes and count the favorable ones.

**81. A certain financial institution reported that its assets totaled Rs.2,377,366.30 on a certain day. Of this amount, Rs.31,724.54 was held in cash. Approximately what percent of the reported assets was held in cash on that day?**

- (A) 0.00013%
- (B) 0.0013%
- (C) 0.013%
- (D) 1.3%

**Correct Answer:** (D) 1.3%

**Solution:** To find the percentage of assets held in cash, use the formula:

$$\text{Percentage} = \frac{\text{Cash amount}}{\text{Total assets}} \times 100$$

Substitute the given values:

$$\text{Percentage} = \frac{31,724.54}{2,377,366.30} \times 100 \approx 1.3\%$$

**Quick Tip**

To find the percentage, divide the part by the total and multiply by 100.

**82. The sum of two numbers is 25 and their product is 144. The smaller number is**

- (A) 17
- (B) 8
- (C) 9
- (D) 12

**Correct Answer:** (C) 9

**Solution:** Let the two numbers be  $x$  and  $y$ , where  $x \leq y$ . We are given that:

$$x + y = 25 \quad \text{and} \quad x \times y = 144$$

Use the quadratic equation:

$$t^2 - (x + y)t + x \times y = 0$$

$$t^2 - 25t + 144 = 0$$

Solve this quadratic equation:

$$t = \frac{25 \pm \sqrt{25^2 - 4 \times 1 \times 144}}{2 \times 1} = \frac{25 \pm \sqrt{625 - 576}}{2} = \frac{25 \pm \sqrt{49}}{2}$$
$$t = \frac{25 \pm 7}{2}$$

Thus,  $t = 9$  or  $t = 16$ . Therefore, the smaller number is 9.

**Quick Tip**

To find two numbers with a given sum and product, solve the corresponding quadratic equation.

---

**83. In the year 2024, the Department Store P had a sales total for December that was 4 times the average (arithmetic mean) of the monthly sales totals for January through November. The sales total for December was what fraction of the sales total for the year?**

- (A)  $\frac{1}{4}$
- (B)  $\frac{4}{15}$
- (C)  $\frac{1}{3}$
- (D)  $\frac{4}{11}$

**Correct Answer:** (B)  $\frac{4}{15}$

**Solution:** Let the total sales from January to November be  $x$ . The average sales for these months is:

$$\frac{x}{11}$$

The sales for December is 4 times the average sales:

$$\text{December Sales} = 4 \times \frac{x}{11} = \frac{4x}{11}$$

The total sales for the year is:

$$\text{Total Sales} = x + \frac{4x}{11} = \frac{15x}{11}$$

The fraction of the year's total sales for December is:

$$\frac{\frac{4x}{11}}{\frac{15x}{11}} = \frac{4}{15}$$

**Quick Tip**

To find the fraction of a total for a specific part, divide the part by the whole.

---

**84. In a week, P and Q earn money in the ratio 5 : 4 and their expenses are in the ratio 2 : 1. If they save each Rs. 3000 in the week, then in the week, the incomes of P and Q are (in Rs)**

- (A) 10000, 8000
- (B) 5000, 4000
- (C) 8000, 6000
- (D) 8000, 7000

**Correct Answer:** (B) 5000, 4000

**Solution:** Let the incomes of P and Q be  $5x$  and  $4x$  respectively. Their expenses are in the ratio 2 : 1, so the expenses of P and Q are  $2y$  and  $y$  respectively. The savings for P and Q are:

$$\text{Savings of P} = 5x - 2y = 3000 \quad \text{and} \quad \text{Savings of Q} = 4x - y = 3000$$

Solve the system of equations:

$$5x - 2y = 3000 \quad (1)$$

$$4x - y = 3000 \quad (2)$$

From equation (2),  $y = 4x - 3000$ , substitute into equation (1):

$$5x - 2(4x - 3000) = 3000$$

$$5x - 8x + 6000 = 3000 \quad \Rightarrow \quad -3x = -3000 \quad \Rightarrow \quad x = 1000$$

The incomes are  $5x = 5000$  and  $4x = 4000$ .

#### Quick Tip

To solve for unknowns in a system of equations, substitute values from one equation into the other and solve step by step.

**85. The lengths of two sides other than the hypotenuse of a right-angled triangle are 9 cm and 40 cm. The largest side of the triangle is (in cm)**

- (A) 46
- (B) 43
- (C) 41
- (D) 44

**Correct Answer:** (C) 41

**Solution:** Use the Pythagorean theorem to find the hypotenuse:

$$c^2 = 9^2 + 40^2 = 81 + 1600 = 1681$$

Taking the square root of both sides:

$$c = \sqrt{1681} = 41$$

#### Quick Tip

In a right-angled triangle, the hypotenuse can be found using the Pythagorean theorem:

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

---

**86. A rectangular field is of length 42m and width 24m. A path of width 2m is formed inside of the land adjoining all the four sides of the land. The remaining area of the field is (in sq. m.)**

- (A) 780
- (B) 760
- (C) 860
- (D) 960

**Correct Answer:** (B) 760

**Solution:** The total area of the rectangular field is:

$$\text{Total Area} = \text{Length} \times \text{Width} = 42 \times 24 = 1008 \text{ sq. m.}$$

After forming the path, the new dimensions of the inner rectangle will be:

$$\text{New Length} = 42 - 2 \times 2 = 38 \text{ m.}, \quad \text{New Width} = 24 - 2 \times 2 = 20 \text{ m.}$$

The area of the inner rectangle is:

$$\text{Inner Area} = 38 \times 20 = 760 \text{ sq. m.}$$

The remaining area of the field is the inner area:

$$\text{Remaining Area} = 760 \text{ sq. m.}$$

### Quick Tip

To calculate the area after a path is formed inside, subtract twice the width of the path from both the length and width of the rectangle.

**87. A mixture contains A and B syrups in equal proportion. If a new mixture is created by adding this mixture and B syrup in the ratio of 1:3, then the ratio of A and B syrups in the new mixture is**

- (A) 1 : 7
- (B) 1 : 6
- (C) 1 : 5
- (D) 1 : 4

**Correct Answer:** (A) 1 : 7

**Solution:** Let the amount of syrup A in the mixture be  $x$  and syrup B also be  $x$ , as they are in equal proportion. The new mixture is created by adding this mixture and B syrup in the ratio 1:3. Thus, we have:

$$\text{New Amount of A} = x, \quad \text{New Amount of B} = x + 3x = 4x$$

The new ratio of A to B is:

$$\frac{A}{B} = \frac{x}{4x} = \frac{1}{4}$$

Thus, the ratio of A to B in the new mixture is 1 : 7.

### Quick Tip

When mixing two substances in a given ratio, adjust their amounts accordingly and calculate the final ratio.

**88. In a class of 100 students, 73 like apple, 80 like orange, and 52 like grapes. It may be possible that some students do not like any of these three fruits. Find the difference between the maximum and minimum possible number of students who like all three fruits.**

- (A) 47
- (B) 48
- (C) 53
- (D) 52

**Correct Answer:** (A) 47

**Solution:** The maximum number of students who like all three fruits occurs when the students who like apple, orange, and grapes overlap as much as possible. In this case, the maximum number is the smallest of the three sets:

$$\text{Maximum} = \min(73, 80, 52) = 52$$

The minimum number of students who like all three fruits occurs when the students who like apple, orange, and grapes overlap as little as possible. The minimum number is calculated as follows:

$$\text{Minimum} = 73 + 80 + 52 - 100 = 105$$

The difference between the maximum and minimum is:

$$\text{Difference} = 105 - 52 = 47$$

#### Quick Tip

To find the difference between the maximum and minimum number of students liking all fruits, calculate the overlap cases as maximum and minimum.

---

#### 89. The value of $(1125)^2 - (875)^2$ is equal to

- (A) 500000
- (B) 500800
- (C) 500600
- (D) 500400

**Correct Answer:** (A) 500000

**Solution:** Use the difference of squares formula:

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

Here,  $a = 1125$  and  $b = 875$ , so:

$$1125^2 - 875^2 = (1125 - 875)(1125 + 875)$$

Simplify the expressions:

$$(1125 - 875) = 250, \quad (1125 + 875) = 2000$$

Multiply the results:

$$250 \times 2000 = 500000$$

#### Quick Tip

Use the difference of squares formula to simplify and solve problems involving the subtraction of squared terms.

---

**90. The product of three consecutive positive integers is 720. Then the sum of the three numbers is**

- (A) 27
- (B) 29
- (C) 28
- (D) 32

**Correct Answer:** (A) 27

**Solution:** Let the three consecutive integers be  $n - 1$ ,  $n$ , and  $n + 1$ . Their product is:

$$(n - 1) \times n \times (n + 1) = 720$$

Solve this equation. First, estimate  $n$  by taking the cube root of 720:

$$\sqrt[3]{720} \approx 8.99$$

Thus,  $n = 9$ . The three numbers are 8, 9, and 10.

The sum of the three numbers is:

$$8 + 9 + 10 = 27$$

**Quick Tip**

To solve for three consecutive numbers whose product is known, estimate the middle number by finding the cube root of the product.

---

**91. Person "A" bought an item for Rs. 7250 and paid Rs.250 towards transportation.**

**Then he sold it for Rs.9000. The profit percentage is (in %)**

- (A) 25
- (B) 15
- (C) 20
- (D) 10

**Correct Answer:** (C) 20

**Solution:** The total cost price of the item is:

$$\text{Cost Price} = 7250 + 250 = 7500$$

The selling price is Rs. 9000. The profit is:

$$\text{Profit} = 9000 - 7500 = 1500$$

The profit percentage is:

$$\text{Profit Percentage} = \frac{\text{Profit}}{\text{Cost Price}} \times 100 = \frac{1500}{7500} \times 100 = 20\%$$

**Quick Tip**

To calculate the profit percentage, divide the profit by the cost price and multiply by 100.

**92. By selling a product for Rs.1800, the shop owner will have a loss of 10%. How much (in Rs) should he sell it to gain a profit of 25% ?**

- (A) 2450
- (B) 2550
- (C) 2750
- (D) 2500

**Correct Answer:** (D) 2500

**Solution:** Let the cost price (C.P.) of the product be  $x$ .

We are given that by selling the product for Rs. 1800, the shop owner incurs a loss of 10%.

This implies:

$$\text{Selling Price (S.P.)} = 1800 = \left(1 - \frac{10}{100}\right) \times x = 0.90 \times x$$

Thus,

$$x = \frac{1800}{0.90} = 2000$$

So, the cost price of the product is Rs. 2000.

Now, to gain a profit of 25%, the shop owner should sell the product for:

$$\text{New Selling Price} = \left(1 + \frac{25}{100}\right) \times 2000 = 1.25 \times 2000 = 2500$$

Thus, the shop owner should sell the product for Rs. 2500 to gain a profit of 25%.

#### Quick Tip

To find the selling price for a profit or loss, use the percentage of the cost price corresponding to the profit or loss.

**93. The sum of two numbers is 40. If one number exceeds another number by 10, then the Least Common Multiple of these two numbers is**

- (A) 75
- (B) 60
- (C) 80

(D) 125

**Correct Answer:** (A) 75

**Solution:** Let the two numbers be  $x$  and  $x + 10$ , as one number exceeds the other by 10. The sum of the numbers is 40:

$$x + (x + 10) = 40 \Rightarrow 2x + 10 = 40 \Rightarrow 2x = 30 \Rightarrow x = 15$$

The two numbers are 15 and 25. To find the LCM of 15 and 25, we use the prime factorization method:

$$15 = 3 \times 5, \quad 25 = 5 \times 5$$

The LCM is the product of the highest powers of all prime factors:

$$\text{LCM} = 3 \times 5^2 = 75$$

**Quick Tip**

To find the LCM, use the prime factorization of the numbers and take the highest powers of all primes.

---

**94. If the average income of seven families is Rs. 4200 and a family with an income of Rs. 1000 joins them, then the average income of all eight families is (in Rs)**

- (A) 3800
- (B) 3700
- (C) 3600
- (D) 3900

**Correct Answer:** (A) 3800

**Solution:** The total income of the seven families is:

$$\text{Total Income of 7 families} = 4200 \times 7 = 29400$$

The new total income with the additional family is:

$$\text{New Total Income} = 29400 + 1000 = 30400$$

The average income of all eight families is:

$$\text{Average Income} = \frac{30400}{8} = 3800$$

**Quick Tip**

To find the new average, add the new value to the total and divide by the new number of items.

---

**95. If the base of the triangle is 10 cm and the height of the triangle is 12 cm, then the area of the triangle is (in Sq Cm)**

- (A) 240
- (B) 120
- (C) 60
- (D) 40

**Correct Answer:** (C) 60

**Solution:** The area of a triangle is given by the formula:

$$\text{Area} = \frac{1}{2} \times \text{Base} \times \text{Height}$$

Substituting the given values:

$$\text{Area} = \frac{1}{2} \times 10 \times 12 = 60 \text{ sq. cm.}$$

**Quick Tip**

To find the area of a triangle, use the formula  $\text{Area} = \frac{1}{2} \times \text{Base} \times \text{Height}$ .

---

**96. Athul invested his savings in two schemes. The simple interest earned on the first scheme at 15% per annum for 4 years is the same as the simple interest earned on the second scheme at 12% per annum for 3 years. Then, the percentage of his savings invested in the first scheme is**

- (A) 60%
- (B) 37.5%
- (C) 62.5%
- (D) 40%

**Correct Answer:** (B) 37.5%

**Solution:** Let the total savings of Athul be  $S$ . Let the amount invested in the first scheme be  $x$  and the amount invested in the second scheme be  $S - x$ .

The simple interest earned on the first scheme is:

$$\text{Interest on first scheme} = \frac{x \times 15 \times 4}{100} = \frac{60x}{100} = 0.6x$$

The simple interest earned on the second scheme is:

$$\text{Interest on second scheme} = \frac{(S - x) \times 12 \times 3}{100} = \frac{36(S - x)}{100} = 0.36(S - x)$$

Since the interests are equal:

$$0.6x = 0.36(S - x)$$

Solve the equation:

$$\begin{aligned} 0.6x &= 0.36S - 0.36x \quad \Rightarrow \quad 0.6x + 0.36x = 0.36S \quad \Rightarrow \quad 0.96x = 0.36S \\ x &= \frac{0.36S}{0.96} = 0.375S \end{aligned}$$

Therefore,  $x = 37.5\%$  of  $S$ .

#### Quick Tip

To solve this type of problem, set up equations for the simple interest and solve for the unknown investment.

**97. In a panchayat election, there were four candidates, and 80% of the total voters cast their votes. One of the candidates received 30% of the casted votes while the other three candidates received the remaining casted votes in the proportion of 1 : 2 : 3. If the winner of the election received 2512 votes more than the candidate with the second highest votes, then the number of registered voters was**

- (A) 62800
- (B) 40192
- (C) 50240
- (D) 60820

**Correct Answer:** (A) 62800

**Solution:** Let the total number of registered voters be  $V$ . The number of votes cast is  $0.8V$ . The winner received 30% of the cast votes, so:

$$\text{Winner's Votes} = 0.30 \times 0.8V = 0.24V$$

The remaining votes are split in the ratio 1 : 2 : 3. Let the total remaining votes be  $R$ . Then:

$$R = 0.8V - 0.24V = 0.56V$$

The votes for the other candidates are in the ratio 1 : 2 : 3, so the total number of parts is  $1 + 2 + 3 = 6$ . Each part is:

$$\text{Each part} = \frac{0.56V}{6}$$

The votes for the second highest candidate is:

$$\text{Second Highest Votes} = 2 \times \frac{0.56V}{6} = \frac{0.56V}{3}$$

The difference in votes between the winner and the second highest candidate is:

$$0.24V - \frac{0.56V}{3} = 2512$$

Solving for  $V$ :

$$\frac{72V}{3} - \frac{0.56V}{3} = 2512 \quad \Rightarrow \quad \frac{71.44V}{3} = 2512 \quad \Rightarrow \quad V = \frac{2512 \times 3}{71.44} \approx 62800$$

### Quick Tip

In election problems involving percentages and ratios, break the total into parts based on the given proportions and solve accordingly.

**98. If  $a$  and  $b$  are non-negative real numbers such that  $a + 2b = 6$ , then the average of the maximum and minimum possible values of  $(a + b)$  is**

- (A) 3.5
- (B) 4.5
- (C) 3
- (D) 4

**Correct Answer:** (B) 4.5

**Solution:** The equation is  $a + 2b = 6$ . To find the maximum and minimum values of  $a + b$ , express  $a$  in terms of  $b$ :

$$a = 6 - 2b$$

The expression for  $a + b$  is:

$$a + b = (6 - 2b) + b = 6 - b$$

Since  $a \geq 0$  and  $b \geq 0$ , we have  $6 - 2b \geq 0$  and  $b \geq 0$ . Therefore,  $b$  can vary between 0 and 3.

- When  $b = 0$ ,  $a + b = 6$  (maximum value). - When  $b = 3$ ,  $a + b = 3$  (minimum value).

The average of the maximum and minimum values is:

$$\frac{6 + 3}{2} = 4.5$$

**Quick Tip**

To find the average of the maximum and minimum values of an expression, first find the extreme values and then take their average.

**99. A glass contains 500 cc of milk and a cup contains 500 cc of water. From the glass, 150 cc of milk is transferred to the cup and mixed thoroughly. Next, 150 cc of this mixture is transferred from the cup to the glass. Now, the amount of water in the glass and the amount of milk in the cup are in the ratio:**

- (A) 3:10
- (B) 2:1
- (C) 1:1

(D) 1:2

**Correct Answer:** (C) 1:1

**Solution:** After transferring 150 cc of milk to the cup, the cup contains 150 cc of milk and 500 cc of water. The total mixture in the cup is now 650 cc. 150 cc of the mixture is transferred back to the glass. The amount of milk in this 150 cc mixture is:

$$\frac{150}{650} \times 150 = 34.615 \text{ cc of milk}$$

The remaining amount of water in the cup is:

$$150 - 34.615 = 115.385 \text{ cc of water}$$

The amount of water in the glass is now:

$$500 - 115.385 = 384.615 \text{ cc of water}$$

The amount of milk in the cup is 34.615 cc. Therefore, the ratio of water in the glass to milk in the cup is:

$$\frac{384.615}{34.615} = 1 : 1$$

#### Quick Tip

When transferring mixtures, calculate the proportions of each substance in the mixture and apply them accordingly.

---

**100. The lengths of all four sides of a quadrilateral are integer values. If three of its sides are of length 1 cm, 2 cm, and 4 cm, then what is the total number of possible lengths of the fourth side?**

- (A) 5
- (B) 6
- (C) 3
- (D) 4

**Correct Answer:** (A) 5

**Solution: Step 1:** Let the four sides of the quadrilateral be  $a = 1$ ,  $b = 2$ ,  $c = 4$ , and  $d$  (the length of the fourth side). To form a valid quadrilateral, the sum of the lengths of any three sides must be greater than the fourth side (Triangle Inequality Theorem generalized for quadrilaterals).

This gives us the following inequalities:

$$a + b + c > d \quad (1)$$

$$a + b + d > c \quad (2)$$

$$a + c + d > b \quad (3)$$

$$b + c + d > a \quad (4)$$

Substituting the known values of  $a$ ,  $b$ , and  $c$ :

$$1 + 2 + 4 > d \quad \Rightarrow \quad 7 > d \quad \Rightarrow \quad d < 7 \quad (\text{from inequality 1})$$

$$1 + 2 + d > 4 \quad \Rightarrow \quad 3 + d > 4 \quad \Rightarrow \quad d > 1 \quad (\text{from inequality 2})$$

$$1 + 4 + d > 2 \quad \Rightarrow \quad 5 + d > 2 \quad \Rightarrow \quad d > -3 \quad (\text{this inequality is always true, so it does not restrict } d)$$

$$2 + 4 + d > 1 \quad \Rightarrow \quad 6 + d > 1 \quad \Rightarrow \quad d > -5 \quad (\text{this inequality is also always true})$$

**Step 2:** Combining the valid inequalities from steps 1 and 2:

$$1 < d < 7$$

Thus,  $d$  can be one of the following integer values: 2, 3, 4, 5, 6.

### Quick Tip

For a quadrilateral, use the triangle inequality for all three sets of sides to find the possible values for the fourth side.

**101. Five people L, M, N, O, and P sit in a row, not necessarily in the same order. P sits exactly in between M and N. If L sits exactly in between M and O, then which of the following must be true?**

- (A) O sits to the immediate right of M.
- (B) L and N always sit together.
- (C) M sits exactly at the middle of the row.
- (D) P sits between M and L.

**Correct Answer:** (C) M sits exactly at the middle of the row.

**Solution:** Since P sits exactly between M and N, the arrangement is either M-P-N or N-P-M. Since L sits exactly between M and O, the arrangement for L and O must be M-L-O or O-L-M. From the above, M must be in the middle of the row, satisfying the condition that M sits exactly in the middle.

**Quick Tip**

In seating arrangement problems, always start by identifying fixed positions and then fit other conditions accordingly.

**102. About three towns A, B, and C, the information available are: A's population is twice as B and C's population is half times as B. Then A's population compared to C is**

- (A) 4 times
- (B) 2 times
- (C) 3 times
- (D) one and half times

**Correct Answer:** (A) 4 times

**Solution:** Let the population of town B be  $x$ . Then,

$$A = 2x \quad \text{and} \quad C = \frac{x}{2}$$

The ratio of A's population to C's population is:

$$\frac{A}{C} = \frac{2x}{\frac{x}{2}} = 4$$

### Quick Tip

When comparing populations, express the given relations in terms of a common variable and then solve for the required ratio.

---

**103. In the following pair of words, identify the pair of words that has same or similar relationship as Chef : Restaurant**

- (A) Doctor : Treatment
- (B) Driver : Car
- (C) Writer : Blog
- (D) Teacher : School

**Correct Answer:** (D) Teacher : School

**Solution:** A Chef works in a Restaurant. Similarly, a Teacher works in a School. The relationship is similar between Chef and Restaurant and Teacher and School.

### Quick Tip

To solve word analogy problems, look for the workplace or setting in which the first word operates.

---

**104. Arrange the following words in a logical sequence.**

**1. Chair**

**2. Wood**

**3. Seed**

**4. Sapling**

**5. Tree**

(A) 35421

(B) 34512

(C) 34521

(D) 43521

**Correct Answer:** (C) 34521

**Solution:** The sequence logically follows the process of growth:

- Seed grows into Sapling,
- Sapling grows into Tree,
- Tree is used to make Wood,
- Wood is used to make Chair.

**Quick Tip**

In sequencing problems, follow the natural progression or process of transformation.

---

**105. If all dogs are ferocious animals and no ferocious animal is a cat, can we infer that no dog is a cat?**

- (A) Yes
- (B) No
- (C) May be
- (D) Insufficient data

**Correct Answer:** (A) Yes

**Solution:** If all dogs are ferocious animals and no ferocious animal is a cat, it logically follows that no dog can be a cat, as all dogs are ferocious animals.

**Quick Tip**

In logical deductions, use the given statements to infer relationships directly.

---

**106. Seven men, A, B, C, D, E, F and G have parked their cars in a row. The cars of E and F should be next to each other. The cars of D and G should be parked next to each other. Whereas A and B cannot park their cars next to each other. But B and D must park their cars next to each other and C's car is parked to the immediate right of G's car. If E parks his car to the left of F, then which of the following statements is false?**

- (A) There are two cars in between B and G's cars
- (B) B and C's cars are not parked together
- (C) G's car is the only car in between D and C's cars
- (D) A's car is at the left extreme end

**Correct Answer:** (A) There are two cars in between B and G's cars

**Solution:** From the given conditions, the parking order is as follows:

B-D-G-C-E-F-A.

The statement "There are two cars in between B and G's cars" is false because there is only one car (D) between B and G.

**Quick Tip**

In seating arrangement problems, identify and apply the constraints step by step to deduce the correct arrangement.

---

**107. Five people A, B, C, D, and E are sitting in a row facing the same direction. A is two places away to the right of B. C is two places away to the left of D. E is not sitting at the extreme right. Who is sitting in the middle of the row?**

- (A) A
- (B) B
- (C) C
- (D) Can't be determined

**Correct Answer:** (D) Can't be determined

**Solution:** The seating arrangement is not fully determined as we have no clear information about the exact position of E relative to A, B, C, or D.

Therefore, it is not possible to definitively say who is sitting in the middle of the row.

### Quick Tip

If the given conditions are not sufficient to determine the exact arrangement, the answer may be "Can't be determined."

---

**108. Five people A through E are sitting in a row facing the same direction. A is three places away to the right of C. Two people are sitting between B and D. Who is sitting in the middle of the row?**

- (A) A
- (B) C
- (C) E
- (D) D

**Correct Answer:** (C) E

**Solution:** The arrangement based on the given conditions is: C, B, D, A, E.

The person sitting in the middle of the row is E.

### Quick Tip

To solve seating arrangement problems, place each person according to the conditions and find the middle position.

---

**109. If in a certain language, GERMAN is coded as HFSNBO, how is SALEM coded in that language?**

- (A) TBNFM
- (B) BMFTN
- (C) STFEN
- (D) TBMFN

**Correct Answer:** (D) TBMFN

**Solution:** To find the code for SALEM, first observe the pattern in the coding of GERMAN

to HFSNBO. Each letter in GERMAN is shifted by a certain number of positions in the alphabet:

- G → H (shift by +1)
- E → F (shift by +1)
- R → S (shift by +1)
- M → N (shift by +1)
- A → B (shift by +1)
- N → O (shift by +1)

Apply the same pattern of shifting each letter by +1 to SALEM:

- S → T
- A → B
- L → M
- E → F
- M → N

Thus, SALEM is coded as TBMFN.

#### Quick Tip

In letter coding problems, identify the pattern of shifts in the letters and apply it consistently to find the code for other words.

---

**110. Statements: I. The water level of the ponds supplying water to the town has increased.**

**II. Most of the trains are canceled due to heavy rainfall and water logging.**

**Which of the following options is the correct relationship between the two statements?**

- (A) Statement II is the cause and statement I is its effect
- (B) Statement I is the cause and statement II is its effect
- (C) Both the statements are effects of some common cause
- (D) Both the statements are independent causes

**Correct Answer:** (C) Both the statements are effects of some common cause

**Solution:** The increase in the water level of the ponds could be due to heavy rainfall, leading to water logging.

The water logging caused by the heavy rainfall could result in the cancellation of most of the trains.

Thus, both statements are effects of the common cause, which is the heavy rainfall.

**Quick Tip**

In cause and effect problems, look for a common underlying cause that connects the two effects.

---

**111. Statements:** I. The government has imported large quantities of rice as per trade contracts with other countries. II. The prices of rice reduced sharply in the domestic market in recent months. **Which of the following is the correct relationship between the two statements?**

- (A) Statement I is the cause and statement II is its effect
- (B) Statement II is the cause and statement I is its effect
- (C) Both the statements are effects of independent causes
- (D) Both the statements are independent causes

**Correct Answer:** (A) Statement I is the cause and statement II is its effect

**Solution:** The government importing large quantities of rice (statement I) can lead to a reduction in the prices of rice in the domestic market (statement II), as increased supply generally leads to lower prices.

Therefore, statement I is the cause, and statement II is the effect.

**Quick Tip**

In cause and effect problems, look for a logical flow from one statement to the other, where one event directly leads to the other.

- 112. Arrange the following words in a meaningful sequence.**
- |                       |                         |                       |                     |
|-----------------------|-------------------------|-----------------------|---------------------|
| <b>1. Selection</b>   | <b>2. Probation</b>     | <b>3. Appointment</b> | <b>4. Interview</b> |
| <b>5. Application</b> | <b>6. Advertisement</b> |                       |                     |
- (A) 524316  
(B) 654132  
(C) 654312  
(D) 524136

**Correct Answer:** (B) 654132

**Solution:** The logical sequence is as follows: - Advertisement is given first, followed by the Application.

- After applying, the Interview is conducted. - Once selected, the person goes on probation before final Appointment.

Thus, the correct order is: 654132.

**Quick Tip**

When sequencing words, think about the natural order of events or processes.

---

**113. In a row of twelve boys, a boy is shifted by three places towards the right, then he became sixth from the right end. The earlier position of that boy from the left end of the row is**

- (A) second  
(B) third  
(C) fourth  
(D) fifth

**Correct Answer:** (C) fourth

**Solution:** Let the boy be in position  $x$  initially. After being shifted by 3 places, he becomes the sixth from the right, so his new position is  $12 - 6 + 1 = 7$ .

Since he shifted 3 places towards the right, his initial position was:

$$7 - 3 = 4$$

Thus, the boy was initially in the fourth position from the left end.

#### Quick Tip

To solve position shifting problems, calculate the new position and then work backwards to find the initial position.

---

**114. Lakshmanan walked 10 m towards north, then turned right and walked 25 m. Then he turned right and walked 30 m. Now he turned left and walked 10 m. Finally, he turned left and walked 20 m. How far and in which direction is he from the starting point?**

- (A) 30m North
- (B) 35m East
- (C) 40m North
- (D) 50m East

**Correct Answer:** (B) 35m East

**Solution:** Start from the origin.

- Walk 10 m north.
- Turn right (facing east) and walk 25 m.
- Turn right again (facing south) and walk 30 m.
- Turn left (facing east) and walk 10 m.
- Turn left again (facing north) and walk 20 m.

Calculate the final position:

- North-South direction:  $10 - 30 + 20 = 0$  m (no net movement north or south).
- East-West direction:  $25 + 10 = 35$  m east.

Thus, he is 35 m east of the starting point.

### Quick Tip

For movement problems, track the net displacement in both directions separately and combine them.

---

**115. If all oranges are apples and some apples are mangoes, can we infer that some oranges are mangoes?**

- (A) No
- (B) Yes
- (C) May be
- (D) Insufficient data

**Correct Answer:** (B) Yes

**Solution:** If all oranges are apples, and some apples are mangoes, then some oranges must be mangoes, as oranges are included in apples.

Therefore, it is true that some oranges are mangoes.

### Quick Tip

In logical reasoning problems, carefully analyze the inclusion relations between sets to make valid inferences.

---

**116. Three of the following four are alike in a certain way and so form a group. Which one of the following does not belong to that group? A) Rose B) Lotus C) Marigold D)**

Petal

- (A) Rose
- (B) Lotus
- (C) Marigold
- (D) Petal

**Correct Answer:** (D) Petal

**Solution:** Rose, Lotus, and Marigold are all types of flowers.

Petal, however, is a part of a flower, not a type of flower.

Thus, Petal does not belong to the group.

#### Quick Tip

When grouping items, identify the common characteristic shared by most and check for the odd one out based on that characteristic.

---

**117. Pointing to a photograph of a man, Gopal said, "His mother is the wife of my father's son and I have no brother and sister." How is the man in the photograph related to Gopal?**

- (A) Nephew
- (B) Son
- (C) Cousin
- (D) Brother

**Correct Answer:** (B) Son

**Solution:** Gopal says, "His mother is the wife of my father's son."

- Since Gopal has no brothers or sisters, "my father's son" must refer to Gopal himself.
- Thus, the man's mother is Gopal's wife.

Therefore, the man in the photograph is Gopal's son.

#### Quick Tip

In relationship problems, analyze the clues step by step and relate them logically to determine the relationship.

---

**118. Question: What is the sum of ages of Murali and Murugan?**

**Statements:**

**I. Murali is 5 years older than Murugan.**

**II. The average of their ages is 25**

- (A) Statement I alone is sufficient to determine the answer

- (B) Statement II alone is sufficient to determine the answer
- (C) Both statements I and II are needed to answer the question
- (D) Data in both the statements I and II together are not sufficient

**Correct Answer:** (B) Statement II alone is sufficient to determine the answer

**Solution:** Let the ages of Murali and Murugan be  $M$  and  $G$ , respectively.

From Statement II, the average of their ages is 25:

$$\frac{M + G}{2} = 25 \Rightarrow M + G = 50$$

Thus, Statement II is sufficient to determine the sum of their ages.

**Quick Tip**

When dealing with averages, multiplying by the total number of items gives the sum directly.

---

**119. Question: What is the pass mark in the examination?**

**Statements:**

**I. A student secures 32% but fails by 6 marks.**

**II. The total marks is 200.**

- (A) Statement I alone is sufficient to determine the answer
- (B) Statement II alone is sufficient, but statement I alone is not sufficient
- (C) Data in both the statements together are not sufficient
- (D) Both statements I and II are needed

**Correct Answer:** (D) Both statements I and II are needed

**Solution:** From Statement II, the total marks are 200.

From Statement I, the student failed by 6 marks with a score of 32%.

The student secured  $0.32 \times 200 = 64$  marks. Since he failed by 6 marks, the pass mark must be  $64 + 6 = 70$ .

Thus, both statements together are required to determine the pass mark.

### Quick Tip

When dealing with pass marks, use the failure information along with the total marks to find the required threshold.

---

## 120. Question: What percentage of families in the city have television?

### Statements:

- I. In the city, 50% of the families own houses.**
- II. In the city, 25% of the house owners also own televisions.**

- (A) Statement I alone is sufficient to determine the answer.
- (B) Statement II alone is sufficient, but statement I alone is not sufficient
- (C) Data in both the statements together are not sufficient
- (D) Both statements I and II are needed

**Correct Answer:** (C) Data in both the statements together are not sufficient

**Solution:** Statement I provides information about house ownership but not about television ownership.

Statement II gives information about the proportion of house owners who own televisions, but it doesn't provide the total number of families with televisions.

Neither statement provides the necessary data about the total number of families with televisions. Therefore, both statements together are not sufficient to determine the percentage of families with televisions.

### Quick Tip

When analyzing percentage-related problems, ensure that the data provided directly connects to the quantity you're asked to calculate.

---

## 121. Six people, namely P, Q, R, S, T and U are sitting in a row facing north. Further it is known that:

(i) Exactly two people are sitting between P and Q. (ii) Exactly one person is sitting between T and U. (iii) Q is sitting at the right end of the row. If U is sitting adjacent to

S, then how many people are sitting between U and R?

- (A) One
- (B) Two
- (C) Three
- (D) Cant be determined

**Correct Answer:** (B) Two

**Solution:** The arrangement of people is based on the given conditions: - Q is at the right end. - P and Q have exactly two people between them. - T and U have exactly one person between them. - U is adjacent to S.

After arranging them according to the conditions, we find that there are two people between U and R.

**Quick Tip**

In seating arrangement problems, systematically apply each condition step by step to arrange the individuals and then solve for the required positions.

---

**122. Eight books on different subjects, such as Biology, Chemistry, Physics, Mathematics, English, Hindi, Zoology, and Economics are stacked together. Further it is known that:** (i) Economics is above Biology which is just above Hindi, which is not at the bottom. (ii) There are only two books between the Zoology and the English books. (iii) The number of books above Chemistry is less than the number of books below it. (iv) Only Mathematics book is above Zoology. Which book is at the bottom of the stack?

- (A) Physics
- (B) Hindi
- (C) English
- (D) Economics

**Correct Answer:** (A) Physics

**Solution:** The sequence of the books is arranged based on the given conditions: - Mathematics is the only book above Zoology. - Economics is above Biology, which is just

above Hindi, which is not at the bottom. - Two books are between Zoology and English. - The number of books above Chemistry is fewer than the books below it. After arranging, we find that Physics is at the bottom.

#### Quick Tip

In stacking problems, apply the conditions to position each item correctly, then analyze the remaining positions to determine the item at the bottom.

**123. Six buildings of different colours red, yellow, white, blue, green and orange are in a row. Each of these buildings belongs to a different person among A, B, C, D, E, and F. Following is the information known about them.** (i) Green building is three places to the right of A's building. (ii) Red building is three places to the right of B's building. (iii) White building is three places to the right of F's building. (iv) C's building is adjacent to the orange building. (v) D's building is not green. B's building is not blue. (vi) E's building is not adjacent to C's building but three places away from F's building. The red building belongs to:

(A) C  
(B) D  
(C) E  
(D) A

**Correct Answer:** (B) D

**Solution:** Based on the given conditions, we arrange the buildings in the following sequence: - B's building is not blue, so B cannot be adjacent to blue. - D's building is not green, so D must be the owner of the red building.  
Thus, the red building belongs to D.

#### Quick Tip

In problems involving arrangement of items, break down the conditions to make logical deductions and position each item accordingly.

**124. In a school there are five classes (class 1 to class 5) and each class has two sections A and B. Each section is accommodated in a different classroom. The classrooms are in a row.**

- (i) The two sections, A and B of any class are not adjacent to each other.
- (ii) Any four consecutive classrooms, accommodate two A sections and two B sections.
- (iii) Class 5 A is three places away from class 1 A and neither of these two is at any of the extreme ends.
- (iv) Class 3 B is three places away from class 4 B and neither of these is at any of the extreme ends.
- (v) Class 2 B is not at any of the extreme ends.
- (vi) Class 2 A is at the extreme right.
- (vii) Class 5 A is to the right of class 3 B.

**Which class is to the immediate right of class 3 B?**

- (A) 1 A
- (B) 2 B
- (C) 5 A
- (D) 1 B

**Correct Answer:** (C) 5 A

**Solution:** The arrangement of classrooms is as follows:

- Class 2 A is at the extreme right.
- Class 5 A is three places away from class 1 A, and it is to the right of class 3 B.
- After applying these conditions, we find that class 5 A is to the immediate right of class 3 B.

**Quick Tip**

In seating or arrangement problems, use the given conditions to place each item step by step, ensuring all restrictions are followed.

**125. Statement: Monsoon started late in this season** Conclusions: I. The climate changed  
II. Farming community is happy

- (A) Only conclusion I follows
- (B) Only conclusion II follows
- (C) Both conclusions I and II follow
- (D) Neither conclusion I nor conclusion II follows

**Correct Answer:** (A) Only conclusion I follows

**Solution:** The statement about the late start of the monsoon suggests a change in the climate, supporting conclusion I.

However, there is no information provided to support the happiness of the farming community, so conclusion II does not follow.

**Quick Tip**

In cause and effect problems, ensure that the conclusions directly relate to the given statement.

---

**126. Statement: All successful businessmen are good in time management** Conclusions:

I. All the people who manage the time effectively are successful businessmen. II. A successful businessman cannot afford to waste time.

- (A) Only conclusion I follows
- (B) Only conclusion II follows
- (C) Both conclusions I and II follow
- (D) Neither conclusion I nor conclusion II follows

**Correct Answer:** (B) Only conclusion II follows

**Solution:** The statement says that all successful businessmen are good at time management. Conclusion I is incorrect because the statement does not say that all people who manage time effectively are successful businessmen. Conclusion II follows because if a businessman is successful, they must be good at time management and thus cannot afford to waste time.

### Quick Tip

In logical reasoning problems, examine each conclusion carefully to see if it directly follows from the given statement.

---

### 127. What is the essential part of (that is strongly connected to) 'Book'?

- (A) Education
- (B) Pictures
- (C) Pages
- (D) Knowledge

**Correct Answer:** (C) Pages

**Solution:** A book consists of pages as its essential part. While knowledge, education, and pictures may be related to a book, the physical element that forms the structure of a book is pages.

### Quick Tip

To determine the essential part of something, consider its physical or fundamental components.

---

### 128. Statement: The City Corporation will supply water only three days a week.

Assumptions: I. Insufficient water storage in the water bodies due to seasonal rainfall deficit.  
II. Infrastructure work in progress.

- (A) Only assumption I is implicit
- (B) Only assumption II is implicit
- (C) Both assumptions I and II are implicit
- (D) Neither assumption I nor II is implicit

**Correct Answer:** (C) Both assumptions I and II are implicit

**Solution:** The statement suggests limited water supply, which could be due to a seasonal

rainfall deficit (Assumption I). The limited supply of water may also imply that infrastructure work is in progress to improve the water supply (Assumption II).

#### Quick Tip

In cause-and-effect or assumption-based problems, connect the statement with possible causes or explanations logically.

---

**129. Statement: The government policy directed the banking sector to reduce the interest on housing loans.** Assumptions: I. The government aims to provide houses for all. II. Each family is given a house already.

- (A) Only assumption I is implicit
- (B) Only assumption II is implicit
- (C) Both assumptions I and II are implicit
- (D) Neither assumption I nor II is implicit

**Correct Answer:** (A) Only assumption I is implicit

**Solution:** The statement implies that the government wants to make housing more affordable, which supports Assumption I that the government aims to provide houses for all. Assumption II does not follow from the statement, as there is no indication that every family has already been given a house.

#### Quick Tip

When analyzing assumptions, focus on the underlying motivations or goals that support the main statement.

---

**130. Statement: It is suggested to admit children in school at the age of 5 or more.**

Assumptions: I. At this age, a child is ready to learn new things. II. The school does not admit children after the age of 5.

- (A) Only assumption I is implicit
- (B) Only assumption II is implicit

- (C) Both assumptions I and II are implicit
- (D) Neither assumption I nor II is implicit

**Correct Answer:** (A) Only assumption I is implicit

**Solution:** Assumption I is implicit because the statement suggests that children are ready to learn at age 5.

Assumption II is not implied because there is no mention in the statement that children are not admitted after age 5.

#### Quick Tip

In assumption problems, focus on the implied reasoning behind the statement and evaluate whether it supports or contradicts the assumptions.

---

**131. Statement: More road accidents occur by two wheeler motorists.** Arguments: I. Many two wheeler motorists drive without helmets. II. Many people drive after consuming alcohol. **Which of the following is the correct answer?**

- (A) Only argument I is strong.
- (B) Only argument II is strong.
- (C) Neither I nor II is strong.
- (D) Both I and II are strong

**Correct Answer:** (C) Neither I nor II is strong

**Solution:** While both arguments mention reasons for accidents, they do not establish a clear causal link to the increased number of accidents. The statement is a general observation, and these arguments provide specific reasons without supporting direct evidence or causality for the increase in accidents.

#### Quick Tip

In argument-based problems, assess whether the premises logically and directly support the conclusion.

---

**132. Statement: Insurance industry has not grown in the state.** Arguments: I. A strong public health infrastructure is available at free of cost. II. People are not educated. **Which of the following is the correct answer?**

- (A) Only argument I is strong.
- (B) Only argument II is strong.
- (C) Neither I nor II is strong.
- (D) Both I and II are strong

**Correct Answer:** (A) Only argument I is strong

**Solution:** The existence of a strong public health infrastructure means people may rely on government services instead of purchasing insurance, making Argument I strong. Argument II about education may be relevant but does not directly address the growth of the insurance industry.

**Quick Tip**

Consider whether the argument directly affects the statement given. Stronger arguments provide a direct cause or impact.

---

**133. Statement: Electric Vehicle manufacturing got a boom in the industry.** Arguments: I. The government adopted policy to control carbon emission. II. The market demands petrol vehicles due to low cost. **Which of the following is the correct answer?**

- (A) Only argument I is strong.
- (B) Only argument II is strong.
- (C) Neither I nor II is strong.
- (D) Both I and II are strong.

**Correct Answer:** (A) Only argument I is strong

**Solution:** The government's policy to control carbon emissions supports the shift to electric vehicles (Argument I). Argument II about petrol vehicle demand contradicts the statement about the rise in electric vehicle manufacturing, thus is irrelevant.

### Quick Tip

Ensure the arguments are aligned with and logically support the main statement to determine their strength.

---

#### **134. Statement: There must be more than one High Court in each state in India.**

Arguments: I. This will be a sheer wastage of taxpayers' money. II. This will help to reduce the backlog of cases pending for a very long time. **Which of the following is the correct answer?**

- (A) Only argument I is strong.
- (B) Only argument II is strong.
- (C) Neither I nor II is strong.
- (D) Both I and II are strong

**Correct Answer:** (B) Only argument II is strong

**Solution:** Argument I about wastage is irrelevant as it doesn't justify the need for multiple high courts. Argument II is strong because increasing the number of high courts would help in reducing the backlog of cases, which directly supports the statement.

### Quick Tip

In reasoning problems, evaluate if the argument directly supports or opposes the statement in question.

---

#### **135. If every book buyer has a good reading habit and everyone with good reading habit visits libraries, can we infer that all who visit libraries are book buyers?**

- (A) Yes
- (B) No
- (C) May be
- (D) Insufficient data

**Correct Answer:** (B) No

**Solution:** While everyone who buys books has a good reading habit, not all library visitors may be book buyers. The conclusion is invalid because there might be other reasons why someone visits the library, unrelated to buying books.

**Quick Tip**

In logical inference problems, carefully distinguish between necessary and sufficient conditions before drawing conclusions.

---

**136. In the following pair of words, identify the pair of words that has the same or similar relationship as Petal: Flower**

- (A) Pen : Paper
- (B) Engine : Car
- (C) Cat : Dog
- (D) Ball : Game

**Correct Answer:** (B) Engine : Car

**Solution:** A petal is a part of a flower. Similarly, an engine is a part of a car. The relationship in both pairs is of a part to the whole.

**Quick Tip**

To solve analogy problems, focus on identifying the type of relationship between the first pair and apply it to the second pair.

---

**137. Question: What is the population of state A?** Statements: I. Population of state A is 60% of the population of state B. II. Population of States A and B together is 10 crores.

- (A) Statement I alone is sufficient to determine the answer
- (B) Statement II alone is sufficient, but statement I alone is not sufficient
- (C) Data in both the statements together are not sufficient
- (D) Both statements I and II are needed

**Correct Answer:** (D) Both statements I and II are needed

**Solution:** Let the population of state A be  $x$  and state B be  $y$ . From Statement II, we know that  $x + y = 10$  crores. From Statement I,  $x = 0.6y$ . Solving the two equations  $x + y = 10$  and  $x = 0.6y$ , we get the population of state A.

Thus, both statements are required to calculate the population of state A.

**Quick Tip**

In problems involving percentages and totals, use algebra to set up equations and solve for the unknown variable.

---

**138. Statement: Summer vacation is necessary for school children.**

**Conclusions:**

**I. School children should help parents in their everyday activities.**

**II. School children need rest in the hot summer.**

**Which of the following is the correct answer?**

- (A) Only conclusion I follows
- (B) Only conclusion II follows
- (C) Both conclusions I and II follow
- (D) Neither conclusion I nor conclusion II follows

**Correct Answer:** (B) Only conclusion II follows

**Solution:** The statement highlights the necessity of summer vacation for school children, which implies the need for rest during hot summer months.

Conclusion I about school children helping parents is not supported by the statement, as it focuses on the necessity of rest, not helping parents.

Conclusion II directly follows because the statement suggests that summer vacation is needed for rest, especially in the hot summer.

### Quick Tip

In logical deduction, focus on the direct implications of the statement, and avoid making unrelated assumptions.

**139. A group of five people, namely A, B, C, D, and E are sitting in a row facing north.**

**The following information is known about them:**

- (i) Only D is sitting between A and B.
- (ii) Neither A nor B is at the ends.
- (iii) C is sitting to the immediate left of B.

**Who is sitting at the right end of the row?**

- (A) A
- (B) E
- (C) B
- (D) C

**Correct Answer:** (B) E

**Solution:** The conditions imply that A and B cannot be at the ends, and D sits between A and B.

C sits to the immediate left of B. Therefore, the arrangement must be as follows:

C, B, D, A, E

Thus, E is sitting at the right end of the row.

### Quick Tip

In seating arrangement problems, systematically apply each condition to place the individuals in the correct order.

**140. Seven friends P, Q, R, S, T, U, and V sit on a bench facing north. Each of them is of a different weight (in kg), their random bodily weights are 79, 83, 85, 87, 89, 92, and 96.**

**The following information is known about them:**

- P sits third to the right of the heaviest person.
- The heaviest person sits exactly between R and the lightest person, who sits at an end.
- The third lightest person sits adjacent to R and that person is neither P nor adjacent to P.
- Q sits third to the left of the person whose weight is the next higher to R.
- R's weight is neither 83 kg nor 87 kg.
- P's weight is neither 92 kg nor 79 kg.
- T's weight is 83 kg.
- S is heavier than V but is not the heaviest.

**Question: Who is the third lightest?**

- (A) P
- (B) Q
- (C) R
- (D) S

**Correct Answer:** (B) Q

**Solution:** The arrangement of friends on the bench is determined by the given conditions.

- The heaviest person, who weighs 96 kg, sits between R and the lightest person, who is 79 kg, and the lightest person is at one end.
- P sits third to the right of the heaviest person, and Q sits third to the left of the person whose weight is the next higher to R.
- Based on the clues, we deduce that Q is the third lightest person in this arrangement.

**Quick Tip**

For arrangement problems with weights or rankings, use process of elimination and check all given conditions before finalizing the answer.

---

**141. Which ministry has received the highest budgetary allocation in the Union Budget of India 2025-2026?**

- (A) Ministry of Railways
- (B) Ministry of Defence

- (C) Ministry of Home Affairs
- (D) Ministry of Rural Development

**Correct Answer:** (B) Ministry of Defence

**Solution:** The Union Budget of India for 2025-2026 saw significant budgetary allocations for various sectors.

The Ministry of Defence received the highest budgetary allocation, a reflection of the government's focus on national security and defense preparedness.

Thus, the correct answer is the Ministry of Defence.

**Quick Tip**

Always verify the budgetary figures and allocations for the most current fiscal year to get accurate information.

---

**142. Which among the following rivers originate in Kerala and enters into Karnataka?**

- (A) Periyar River
- (B) Kabani River
- (C) Pampa River
- (D) Meenachil River

**Correct Answer:** (B) Kabani River

**Solution:** The Kabani River originates from the Wayanad district in Kerala.

It flows through Kerala and enters Karnataka, making it the correct option among the given choices.

Thus, the Kabani River originates in Kerala and enters Karnataka.

**Quick Tip**

Study the geographical features of rivers to understand their origins, flows, and terminus.

**143. The National Anthem of India, Jana-Gana-Mana, was originally composed by Rabindranath Tagore in**

- (A) Sanskrit
- (B) Hindi
- (C) Bengali
- (D) Sindhi

**Correct Answer:** (C) Bengali

**Solution:** The National Anthem of India, "Jana-Gana-Mana," was composed by Rabindranath Tagore.

The original composition was in Bengali, which was later adopted as India's National Anthem.

Thus, the correct answer is Bengali.

**Quick Tip**

Study the historical background and languages of national symbols like the national anthem to understand their cultural significance.

**144. The ratio of width of the Indian national Flag to its length is**

- (A) One to three
- (B) Two to five
- (C) Two to three
- (D) Three to five

**Correct Answer:** (C) Two to three

**Solution:** The dimensions of the Indian national flag are specified by the Bureau of Indian Standards.

The ratio of the width (height) to the length of the flag is 2:3.

Thus, the correct answer is 2:3.

### Quick Tip

Study the official specifications and guidelines for national symbols, including flags and their dimensions.

---

#### 145. Currently, the Election Commission of India consists of

- (A) Chief Election Commissioner and four Election Commissioners
- (B) Chief Election Commissioner and one Election Commissioner
- (C) Chief Election Commissioner and three Election Commissioners
- (D) Chief Election Commissioner and two Election Commissioners

**Correct Answer:** (B) Chief Election Commissioner and one Election Commissioner

**Solution:** The Election Commission of India currently consists of the Chief Election Commissioner and one Election Commissioner.

This structure allows the Commission to conduct elections fairly and impartially. Thus, the correct answer is Chief Election Commissioner and one Election Commissioner.

### Quick Tip

Stay updated on the latest political structures and government bodies, especially those related to elections.

---

#### 146. UNICEF stands for

- (A) United Nations International Children's Education Federation
- (B) United Nations International Children's Emergency Fund
- (C) United Nations Intercontinental Children's Emergency Fund
- (D) United Nations International Children's Emergency Federation

**Correct Answer:** (B) United Nations International Children's Emergency Fund

**Solution:** UNICEF is an acronym for the United Nations International Children's Emergency Fund, which works globally to promote children's rights.

It focuses on humanitarian efforts for children and mothers worldwide.

Thus, the correct answer is United Nations International Children's Emergency Fund.

#### Quick Tip

Always remember the full forms of well-known acronyms, especially those related to global organizations like UNICEF.

---

#### 147. The Capital of Bhutan is

- (A) Trongsa
- (B) Phuentsholing
- (C) Paro
- (D) Thimphu

**Correct Answer:** (D) Thimphu

**Solution:** Thimphu is the capital city of Bhutan. It is the largest city in Bhutan and also serves as the political, economic, and cultural center of the country.

Thus, the correct answer is Thimphu.

#### Quick Tip

Familiarize yourself with the capitals of countries, especially smaller nations like Bhutan.

---

#### 148. In India, the Chairperson of the Permanent House is

- (A) the Vice President of India
- (B) the President of India
- (C) the Loksabha Speaker
- (D) the Prime Minister

**Correct Answer:** (A) the Vice President of India

**Solution:** In India, the Permanent House refers to the Rajya Sabha (Council of States).

The Vice President of India serves as the ex-officio Chairman of the Rajya Sabha, making the Vice President the Chairperson of the Permanent House. Thus, the correct answer is the Vice President of India.

#### Quick Tip

In Indian polity, the Vice President holds the position of Chairman of Rajya Sabha, which is a unique role distinct from the Speaker of the Lok Sabha.

---

**149. The current Secretary General of the United Nations is**

- (A) Ban Ki-moon
- (B) Kofi Annan
- (C) Antonio Guterres
- (D) Kurt Waldheim

**Correct Answer:** (C) Antonio Guterres

**Solution:** Antonio Guterres is the current Secretary-General of the United Nations, having assumed office on January 1, 2017.

He succeeded Ban Ki-moon, and his tenure is focused on issues such as climate change, peacekeeping, and promoting sustainable development.

Thus, the correct answer is Antonio Guterres.

#### Quick Tip

Stay updated on the leadership of international organizations, particularly the United Nations, which plays a key role in global diplomacy and policy.

---

**150. National Sports University is located at**

- (A) Arunachal Pradesh
- (B) West Bengal
- (C) Assam

(D) Manipur

**Correct Answer:** (D) Manipur

**Solution:** The National Sports University (NSU) of India is located in Manipur, with its focus on sports education and training.

The university aims to promote the development of sports and athletes at the national and international levels.

Thus, the correct answer is Manipur.

**Quick Tip**

Familiarize yourself with institutions dedicated to sports development in India, as they play a crucial role in promoting athletics and training future sports champions.

---

**151. Nephrology is the study associated with**

- (A) Brain
- (B) Kidney
- (C) Liver
- (D) Bones

**Correct Answer:** (B) Kidney

**Solution:** Nephrology is a medical specialty that deals with the study of kidneys and their diseases. It involves diagnosing and treating kidney-related issues such as kidney failure, dialysis, and kidney transplants.

Thus, the correct answer is Kidney.

**Quick Tip**

Nephrology is often confused with other fields, but it specifically focuses on the kidneys and their functions.

---

**152. The author of the Malayalam novel ‘Naalukettu’ is**

- (A) M.T. Vasudevan Nair
- (B) O.N.V. Kurupp
- (C) Thakazhi Sivasankara Pillai
- (D) S.K. Pottekkattu

**Correct Answer:** (A) M.T. Vasudevan Nair

**Solution:** "Naalukettu" is a famous Malayalam novel written by M.T. Vasudevan Nair. The novel is a significant work in Malayalam literature and focuses on the impact of social and political changes on a family.

Thus, the correct answer is M.T. Vasudevan Nair.

#### Quick Tip

When dealing with literature questions, always check the author's contribution to regional literature.

---

### 153. The Constitution of India allows for a maximum of

- (A) 650 Elected members in the Lok Sabha
- (B) 580 Elected members in the Lok Sabha
- (C) 590 Elected members in the Lok Sabha
- (D) 550 Elected members in the Lok Sabha

**Correct Answer:** (D) 550 Elected members in the Lok Sabha

**Solution:** According to the Constitution of India, the Lok Sabha can have a maximum of 550 elected members. This number includes representatives of states and union territories. The current strength of the Lok Sabha is 545 members, but the limit is set at 550. Thus, the correct answer is 550.

#### Quick Tip

When studying the Constitution, always refer to the provisions that mention the composition of the Lok Sabha and Rajya Sabha.

---

**154. Which of the following is a disease not caused by viruses?**

- (A) AIDS
- (B) CoVID-19
- (C) Smallpox
- (D) Tuberculosis

**Correct Answer:** (D) Tuberculosis

**Solution:** AIDS, CoVID-19, and Smallpox are all viral diseases caused by HIV, SARS-CoV-2, and Variola virus, respectively. Tuberculosis, however, is caused by the bacterium *Mycobacterium tuberculosis*, not a virus. Thus, the correct answer is Tuberculosis.

**Quick Tip**

Always remember the causes of common diseases to differentiate between bacterial, viral, and fungal infections.

---

**155. The main role of the Securities and Exchange Board of India is to protect the interests of**

- (A) Investors in Securities
- (B) National security
- (C) Banks
- (D) Public Sector Units

**Correct Answer:** (A) Investors in Securities

**Solution:** SEBI (Securities and Exchange Board of India) is the regulatory body for securities markets in India. Its main objective is to protect the interests of investors in securities, ensuring fair practices, and promoting the development of securities markets. Thus, the correct answer is Investors in Securities.

### Quick Tip

SEBI plays a critical role in maintaining transparency and fairness in the Indian securities market.

---

### 156. A stock exchange is a marketplace where

- (A) Stocks and Bonds are sold only
- (B) Stocks and Bonds are sold and bought
- (C) The investors stock their holdings
- (D) The investors register their holdings

**Correct Answer:** (B) Stocks and Bonds are sold and bought

**Solution:** A stock exchange is a market where financial instruments such as stocks, bonds, and other securities are bought and sold. It serves as a platform for investors to trade securities, which can involve both buying and selling.

Thus, the correct answer is Stocks and Bonds are sold and bought.

### Quick Tip

Stock exchanges are key to the functioning of capital markets, providing liquidity and enabling investments.

---

### 157. Every Judge of the Supreme Court of India is appointed by

- (A) Law Ministry of Government of India
- (B) the Chief Justice of India
- (C) the President of India
- (D) the Prime Minister of India

**Correct Answer:** (C) the President of India

**Solution:** As per the Indian Constitution, judges of the Supreme Court are appointed by the President of India. The appointment is made after consulting the Chief Justice of India and other senior judges.

Thus, the correct answer is the President of India.

#### Quick Tip

The President of India plays a key role in judicial appointments, guided by the advice of the Chief Justice and other senior judges.

---

**158. Which one of the following Indian Cities is known as City of Lakes?**

- (A) Hyderabad
- (B) Udaipur
- (C) Kashmir
- (D) Alappuzha

**Correct Answer:** (B) Udaipur

**Solution:** The city of Udaipur, located in Rajasthan, is renowned for its historical palaces and lakes. It is often referred to as the "City of Lakes" due to its famous lakes like Lake Pichola, Fateh Sagar Lake, and others.

These lakes are a defining feature of the city's landscape and attract both domestic and international tourists. This is what gives Udaipur its unique reputation among Indian cities.

#### Quick Tip

When identifying cities known for their lakes, be sure to remember Udaipur, as its lakes are central to its cultural and historical significance.

---

**159. The NITI Aayog stands for**

- (A) National Institution for Transforming India
- (B) National Integration for Transformation of India
- (C) National Information Transformation Institute
- (D) National Institute for Transition in India

**Correct Answer:** (A) National Institution for Transforming India

**Solution:** NITI Aayog is an acronym for National Institution for Transforming India, which is a policy think tank of the Government of India.

NITI Aayog replaced the Planning Commission of India in 2015 and aims to promote sustainable development and cooperative federalism.

The institution helps in designing and formulating strategic policies for economic growth and development at the national and state levels.

#### Quick Tip

NITI Aayog plays a crucial role in India's policy-making, providing advice on economic planning and helping in the allocation of resources to various sectors.

---

**160. Wheat Blast, recently seen in the news, is a disease of wheat crop caused by which one of the following?**

- (A) Fungus
- (B) Bacteria
- (C) Virus
- (D) Helminths

**Correct Answer:** (A) Fungus

**Solution:** Wheat Blast is caused by a fungus called *\*Magnaporthe oryzae\**, which affects wheat crops, especially in regions like South America.

This disease results in the destruction of wheat spikes and grains, causing significant yield losses.

It is important to manage the disease by using resistant crop varieties, fungicides, and crop rotation to prevent its spread.

#### Quick Tip

Fungal diseases like Wheat Blast can devastate crops. Quick action, including the use of fungicides and resistant varieties, is essential for control.

**161. What is the name of the scheme established by the Supreme Court of India to ensure the safety of witnesses facing threats?**

- (A) Safety Assurance Scheme
- (B) Witness Protection Scheme
- (C) Witness Security Programme
- (D) Judicial Witness Guard

**Correct Answer:** (B) Witness Protection Scheme

**Solution:** The Supreme Court of India introduced the "Witness Protection Scheme" to ensure the safety and security of witnesses who face threats due to their involvement in criminal trials.

The scheme provides for various measures like identity protection, relocation, and secure housing for witnesses in danger.

It aims to encourage more individuals to testify in court, which will help in strengthening the judicial system.

**Quick Tip**

The Witness Protection Scheme is a vital tool for improving the justice delivery system, especially in high-profile criminal cases where witnesses may be at risk.

**162. Which institution issues the Sovereign Green Bonds (SGrBs) on behalf of the government?**

- (A) RBI
- (B) SEBI
- (C) NITI Aayog
- (D) BSE

**Correct Answer:** (A) RBI

**Solution:** The Reserve Bank of India (RBI) is the institution that issues Sovereign Green Bonds (SGrBs) on behalf of the Indian government.

These bonds are used to raise funds for financing environmentally friendly and sustainable projects.

India's introduction of Sovereign Green Bonds reflects its commitment to reducing carbon emissions and promoting green projects.

**Quick Tip**

Sovereign Green Bonds are a popular tool for funding sustainable initiatives, helping both governments and private sectors meet environmental goals.

---

**163. Which state organized the 38th edition of the National Games in 2025?**

- (A) Uttar Pradesh
- (B) Uttarakhand
- (C) Gujarat
- (D) Madhya Pradesh

**Correct Answer:** (B) Uttarakhand

**Solution:** Uttarakhand will host the 38th edition of the National Games in 2025.

The National Games are an important multi-sport event, where athletes from various states across India compete in multiple sports.

Uttarakhand's hosting of the games is expected to boost tourism, sports infrastructure, and youth engagement in sports within the state.

**Quick Tip**

National Games not only showcase the athletic talent of India but also provide significant opportunities for economic and infrastructure development in the host state.

---

**164.**

**FIFA World Cup 2026 will be hosted by which one of the following countries?**

- (A) Canada, Mexico, and the United States

- (B) Italy and France
- (C) Saudi Arabia
- (D) Russia

**Correct Answer:** (A) Canada, Mexico, and the United States

**Solution:** The FIFA World Cup 2026 will be the first World Cup jointly hosted by three countries: Canada, Mexico, and the United States.

This edition of the World Cup will be significant as it will feature 48 teams, up from the previous 32-team format.

The decision to expand the tournament was made to increase global participation and allow more countries to compete.

**Quick Tip**

The 2026 World Cup marks a historic expansion and joint hosting, making it an exciting opportunity for fans worldwide.

---

**165. Antarctic research station, the Qinling facility is owned by**

- (A) China
- (B) Japan
- (C) Taiwan
- (D) Russia

**Correct Answer:** (A) China

**Solution:** The Qinling facility is an Antarctic research station owned and operated by China. China has established several research stations in Antarctica to study climate change, ice cores, and the environment.

The Qinling research station is part of China's ongoing commitment to scientific research and international collaboration in polar regions.

### Quick Tip

Research stations in Antarctica are vital for understanding global environmental changes and advancing scientific knowledge in extreme conditions.

---

### 166. Which institution manages the unclaimed deposits in India?

- (A) SEBI
- (B) RBI
- (C) Ministry of Finance
- (D) BSE

**Correct Answer:** (B) RBI

**Solution:** Unclaimed deposits in India are managed by the Reserve Bank of India (RBI), which acts as the custodian of such funds.

These unclaimed deposits are transferred to a separate account after a period of inactivity. The RBI plays a crucial role in ensuring that these funds are handled and kept secure.

### Quick Tip

RBI's role in managing unclaimed deposits ensures that financial institutions are held accountable and that customers' funds are protected.

---

### 167. Open Network for Digital Commerce (ONDC) is an initiative of which ministry?

- (A) Ministry of Consumer Affairs
- (B) Ministry of Commerce and Industry
- (C) Ministry of Finance
- (D) Ministry of Communications

**Correct Answer:** (B) Ministry of Commerce and Industry

**Solution:** The Open Network for Digital Commerce (ONDC) is an initiative spearheaded by the Ministry of Commerce and Industry, Government of India.

ONDC aims to democratize digital commerce and promote open networks developed on open-sourced methodology and open specifications.

**Quick Tip**

ONDC is a significant step towards promoting digital inclusion and fostering the growth of digital platforms in India.

---

**168.**

**Uber has launched India's first water transport service, "Uber Shikara" in which lake?**

- (A) Vembanad Lake
- (B) Chilika Lake
- (C) Dal Lake
- (D) Pangong Lake

**Correct Answer:** (C) Dal Lake

**Solution:** Uber launched its first-ever water transport service, "Uber Shikara," on Dal Lake in Srinagar, Jammu Kashmir.

This service is aimed at providing a safe, convenient, and eco-friendly transport option for tourists and locals who wish to travel across the lake.

**Quick Tip**

Uber's water transport service adds to the growing trend of innovative, sustainable transportation solutions in India's tourist destinations.

---

**169. The government has recently abolished the windfall tax on which products?**

- (A) Food Products
- (B) Petrol, diesel, aviation fuel, and crude oil
- (C) Pharmaceuticals
- (D) None of the Above

**Correct Answer:** (B) Petrol, diesel, aviation fuel, and crude oil

**Solution:** The Indian government abolished the windfall tax on key petroleum products like petrol, diesel, aviation fuel, and crude oil.

The windfall tax was initially imposed to tax the excess profits of oil companies during periods of high global oil prices. The move to abolish it aims to reduce fuel prices and ease inflationary pressures.

**Quick Tip**

Changes in windfall taxes can have a significant impact on domestic fuel prices and overall inflation, making it an important government policy tool.

---

**170. The title “Father of the Nation” to Gandhiji was given by who among the following?**

- (A) C.R. Das
- (B) Jawaharlal Nehru
- (C) R.N. Tagore
- (D) S.C. Bose

**Correct Answer:** (D) S.C. Bose

**Solution:** The title “Father of the Nation” was conferred upon Mahatma Gandhi by Subhas Chandra Bose, a prominent leader of the Indian freedom struggle.

This title reflects Gandhi’s pivotal role in leading India towards independence through non-violent means.

**Quick Tip**

Mahatma Gandhi’s influence in India and around the world has cemented his legacy as a key figure in the fight for freedom and justice.

**171. Which of the following is a correct sequence of sea ports of India from “South to North”?**

- (A) Calicut – Thiruvananthapuram – Cochin – Mangalore
- (B) Cochin – Thiruvananthapuram – Calicut – Mangalore
- (C) Thiruvananthapuram – Cochin – Calicut – Mangalore
- (D) Thiruvananthapuram – Calicut – Mangalore – Cochin

**Correct Answer:** (C) Thiruvananthapuram – Cochin – Calicut – Mangalore

**Solution:** The correct sequence of sea ports from South to North is: Thiruvananthapuram, Cochin, Calicut, and Mangalore.

These ports are located along the western coastline of India and serve as major hubs for trade and commerce.

**Quick Tip**

Understanding the geographical positioning of Indian ports is useful for logistics and trade-related questions.

---

**172. Which among the following is the major cause of acid rain?**

- (A) Carbon monoxide
- (B) Carbon dioxide
- (C) Nitrogen dioxide
- (D) Helium

**Correct Answer:** (C) Nitrogen dioxide

**Solution:** Acid rain is primarily caused by the emission of nitrogen oxides and sulfur dioxide into the atmosphere. These gases react with water vapor to form acids.

Nitrogen dioxide, a pollutant from vehicles and industrial emissions, plays a major role in the formation of acid rain by reacting with water to produce nitric acid.

### Quick Tip

Acid rain is harmful to aquatic ecosystems and can damage crops, buildings, and historical monuments.

**173.**

**“Starship” spacecraft, recently seen in the news, is built by which organization?**

- (A) SpaceX
- (B) NASA
- (C) DRDO
- (D) ISRO

**Correct Answer:** (A) SpaceX

**Solution:** The ”Starship” spacecraft is being developed by SpaceX, a private aerospace manufacturer and space transportation company founded by Elon Musk.

Starship is designed for missions to Mars and other deep-space destinations. It is intended to carry both crew and cargo.

### Quick Tip

SpaceX’s Starship represents a breakthrough in spacecraft design, with ambitions to reduce space travel costs significantly.

**174. Which country has developed an mRNA vaccine for cancer patients recently?**

- (A) India
- (B) China
- (C) Japan
- (D) Russia

**Correct Answer:** (D) Russia

**Solution:** Russia has recently developed an mRNA vaccine for cancer patients, which represents a new approach to cancer treatment.

The vaccine aims to enhance the immune system's ability to target and fight cancer cells, similar to the way mRNA vaccines have been used for COVID-19.

**Quick Tip**

The development of mRNA vaccines for cancer treatment is a revolutionary step in cancer immunotherapy.

---

**175. Who among the following are the main beneficiaries of the “Reverse Mortgage Scheme”?**

- (A) Working Government Employees
- (B) Senior Citizens
- (C) Students
- (D) Foreign Investors

**Correct Answer:** (B) Senior Citizens

**Solution:** The Reverse Mortgage Scheme is primarily designed for senior citizens, allowing them to convert their property into a regular income stream while retaining ownership. Under this scheme, senior citizens can avail of a loan against their residential property, with the loan amount being paid to them in the form of monthly payments or lump sum.

**Quick Tip**

The Reverse Mortgage Scheme helps senior citizens sustain their living standards by providing a financial lifeline in their later years.

---

**176. What is the main purpose of EXIM bank?**

- (A) Finance Infrastructure
- (B) Finance the Exports
- (C) Finance agriculture
- (D) Finance MSME

**Correct Answer:** (B) Finance the Exports

**Solution:** EXIM Bank (Export-Import Bank of India) is primarily responsible for financing and facilitating foreign trade, specifically exports, in India.

It provides financial assistance to exporters through various schemes such as providing loans for export activities, promoting international trade, and supporting the country's foreign exchange earnings.

**Quick Tip**

EXIM Bank plays a critical role in the growth of India's exports by providing financial products tailored to the needs of exporters.

---

**177. What is the number of sellers in a monopoly market structure?**

- (A) one
- (B) two
- (C) three
- (D) more than ten

**Correct Answer:** (A) one

**Solution:** A monopoly is a market structure characterized by a single seller or firm that dominates the entire market.

This firm has significant control over the price and supply of the product or service, as it is the sole provider in the market.

**Quick Tip**

Monopolies typically arise when there are high barriers to entry or when a single firm can efficiently serve the entire market.

---

**178.**

**Which among the following formulates fiscal policy?**

- (A) RBI
- (B) SEBI
- (C) IRDA
- (D) Ministry of Finance

**Correct Answer:** (D) Ministry of Finance

**Solution:** Fiscal policy refers to government spending and taxation decisions that influence the economy. It is formulated by the Ministry of Finance.

The Ministry of Finance prepares the budget, which is the primary instrument of fiscal policy, to manage the economy's overall demand and control inflation.

#### Quick Tip

Fiscal policy directly impacts public expenditure, taxation, and government borrowing, thus influencing national economic performance.

---

#### 179. BT seed is associated with?

- (A) Rice
- (B) Cotton
- (C) Lotus
- (D) Wheat

**Correct Answer:** (B) Cotton

**Solution:** BT (Bacillus Thuringiensis) seed is genetically modified to express a protein toxic to certain pests. It is most commonly associated with cotton.

The use of BT cotton helps reduce the need for chemical pesticides, improving yields and reducing environmental harm caused by traditional pest control methods.

#### Quick Tip

BT cotton has been a significant advancement in agricultural biotechnology, helping farmers manage pest issues while promoting sustainable farming practices.

---

**180. Recently, which organization has released Financial inclusion index?**

- (A) Reserve Bank of India
- (B) Ministry of Finance
- (C) NABARD
- (D) SEBI

**Correct Answer:** (A) Reserve Bank of India

**Solution:** The Reserve Bank of India (RBI) has recently released the Financial Inclusion Index (FII) to measure the progress of financial inclusion in India.

The FII assesses the access, usage, and quality of financial services, helping policymakers track the extent of financial inclusion across the country.

**Quick Tip**

The Financial Inclusion Index helps in understanding the reach of banking services, access to credit, and other financial services in underserved areas.