

CUET 2025 May 21 General Test Question Paper with Solutions

Time Allowed :1 Hour	Maximum Marks :250	Total Questions :50
----------------------	--------------------	---------------------

General Instructions

Read the following instructions very carefully and strictly follow them:

1. The test is of 1 hour duration.
2. The question paper consists of 50 questions. The maximum marks are 250.
3. 5 marks are awarded for every correct answer, and 1 mark is deducted for every wrong answer.

1. What will be the next number in the series? 2, 6, 12, 20, 30, ?

- (A) 36
- (B) 40
- (C) 42
- (D) 44

Correct Answer: (C) 42

Solution:

The given series is: 2, 6, 12, 20, 30, ?

Observe the pattern:

$$2 \quad (2 + 4) = 6 \quad (6 + 6) = 12 \quad (12 + 8) = 20 \quad (20 + 10) = 30$$

The differences between the consecutive numbers are increasing by 2 each time: 4, 6, 8, 10...

So, the next difference should be 12. Thus, the next term will be:

$$30 + 12 = 42$$

Answer: 42

Quick Tip

In number series problems, look for patterns in the differences between consecutive numbers. In this case, the differences increase by 2 each time.

2. Which word does not belong to the group? Apple, Banana, Carrot, Mango

- (A) Apple
- (B) Banana
- (C) Carrot
- (D) Mango

Correct Answer: (C) Carrot

Solution:

Apple, Banana, and Mango are all fruits, while Carrot is a vegetable. Therefore, Carrot does not belong to the group.

Answer:

Quick Tip

In questions asking for the word that does not belong, focus on categorizing the items by type, such as fruits, vegetables, or animals.

3. Which country has the largest coastline in the world?

- (A) Australia
- (B) Russia
- (C) Canada
- (D) United States

Correct Answer: (B) Russia

Solution:

The country with the largest coastline in the world is Russia. The total length of Russia's coastline is approximately 37,653 km, which is the longest of any country.

Answer:

Quick Tip

When identifying countries with the longest coastlines, consider the geographical size and location of the country. Russia, due to its vast size and location, has the largest coastline in the world.

4. If in a certain code, "COLD" is written as "DPME", then how is "HEAT" written?

- (A) IFBU
- (B) IDBU
- (C) IFBS

(D) JGBU

Correct Answer: (A) IFBU

Solution:

The code follows a pattern where each letter is shifted forward by 1 position in the alphabet:

- C → D - O → P - L → M - D → E

Applying the same rule to "HEAT": - H → I - E → F - A → B - T → U

Thus, the code for "HEAT" is "IFBU".

Answer:

Quick Tip

In coding-decoding problems, look for consistent shifts or changes between corresponding letters in the word and its code.

5. In a certain code language, "MOTHER" is coded as "OMHTRE". What will be the code for "FATHER"?

(A) AFHTRE

(B) AFTHER

(C) HATFRE

(D) AFTREH

Correct Answer: (D) AFTREH

Solution:

Let's analyze how "MOTHER" is coded as "OMHTRE". The positions of letters in "MOTHER" are rearranged as follows: - The first letter "M" is moved to the second position. - The second letter "O" stays in the first position. - The third and fourth letters "T" and "H" are swapped. - The last two letters "E" and "R" stay in their original positions.

Now apply the same pattern to "FATHER": - The first letter "F" should go to the second position. - The second letter "A" stays in the first position. - The third and fourth letters "T" and "H" are swapped. - The last two letters "E" and "R" stay in their original positions.

So, the code for "FATHER" is "AFTREH".

Answer:

Quick Tip

Look for letter rearrangements or specific patterns in the coding scheme. Often, it involves shifting or swapping positions of letters.

6. A shopkeeper buys an item for 2600 and sells it at a 25% profit. What is the selling price?

- (A) 725
- (B) 750
- (C) 775
- (D) 2800

Correct Answer: (D) 2800

Solution:

Given: - Cost Price (C.P.) = 2600 - Profit percentage = 25%

Selling Price (S.P.) is calculated as:

$$S.P. = C.P. \times \left(1 + \frac{\text{Profit Percentage}}{100}\right)$$

Substitute the values:

$$S.P. = 2600 \times \left(1 + \frac{25}{100}\right) = 2600 \times 1.25 = 3250$$

Answer:

Quick Tip

To calculate selling price, multiply the cost price by $\left(1 + \frac{\text{profit percentage}}{100}\right)$.

7. A man can row 24 km downstream in 3 hours and the same distance upstream in 6 hours. What is the speed of the boat in still water?

- (A) 4 km/h
- (B) 5 km/h
- (C) 6 km/h
- (D) 8 km/h

Correct Answer: (B) 5 km/h

Solution:

Let the speed of the boat in still water be x km/h, and the speed of the stream be y km/h. -

Speed downstream = $x + y$ km/h - Speed upstream = $x - y$ km/h

Given: - Distance downstream = 24 km, Time = 3 hours - Distance upstream = 24 km, Time = 6 hours

Using the formula:

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

Downstream speed = $\frac{24}{3} = 8$ km/h, Upstream speed = $\frac{24}{6} = 4$ km/h.

Now, we have the equations: - $x + y = 8$ - $x - y = 4$

Adding these two equations:

$$(x + y) + (x - y) = 8 + 4$$

$$2x = 12 \Rightarrow x = 6$$

Thus, the speed of the boat in still water is 6 km/h.

Answer: 6

Quick Tip

To find the speed of the boat in still water, solve for x by adding and subtracting the downstream and upstream speed equations.

8. Statement: All flowers are leaves. Some leaves are green. Conclusion I: Some flowers are green. Conclusion II: All leaves are flowers. Which of the conclusions logically follow(s)?

- (A) Only I follows
- (B) Only II follows
- (C) Neither I nor II follows
- (D) Both I and II follow

Correct Answer: (A) Only I follows

Solution:

We are given the statement: "All flowers are leaves" and "Some leaves are green". From the first statement, we know that all flowers are leaves, but this does not mean that all leaves are flowers. Hence, Conclusion II ("All leaves are flowers") is incorrect. For Conclusion I: "Some flowers are green", since "Some leaves are green" and all flowers are leaves, it is logical that some flowers could be green as well. Therefore, Conclusion I follows.

Answer:

Quick Tip

In logical reasoning, always examine the relationships between the statements and conclusions. One statement doesn't imply the other unless explicitly mentioned.

9. Find the next term in the series: 3, 6, 11, 18, 27, ?

- (A) 38
- (B) 40
- (C) 35
- (D) 36

Correct Answer: (D) 36

Solution:

Observe the differences between consecutive terms:

$$6 - 3 = 3, \quad 11 - 6 = 5, \quad 18 - 11 = 7, \quad 27 - 18 = 9$$

The differences between consecutive numbers are increasing by 2 each time: 3, 5, 7, 9...

Hence, the next difference should be 11. Therefore, the next term is:

$$27 + 11 = 36$$

Answer: 36

Quick Tip

When finding the next term in a series, look for patterns in the differences between consecutive terms. If the differences follow a simple pattern, use it to find the next term.

10. What is the value of x ?

Statement I: $2^2 + 5x + 6 = 0$

Statement II: $2^2 + 7x + 12 = 0$

- (A) Statement I alone is sufficient
- (B) Statement II alone is sufficient
- (C) Both statements together are sufficient
- (D) Neither statement is sufficient

Correct Answer: (D) Neither statement is sufficient

Solution:

We will evaluate each statement to find the value of x and check if we can conclude a unique answer.

Statement I:

$$2^2 + 5x + 6 = 0 \Rightarrow 4 + 5x + 6 = 0 \Rightarrow 5x + 10 = 0 \Rightarrow 5x = -10 \Rightarrow x = -2$$

Statement II:

$$2^2 + 7x + 12 = 0 \Rightarrow 4 + 7x + 12 = 0 \Rightarrow 7x + 16 = 0 \Rightarrow 7x = -16 \Rightarrow x = -\frac{16}{7}$$

The two statements provide different values for x : - From Statement I, $x = -2$ - From Statement II, $x = -\frac{16}{7}$

Since each statement gives a different value for x , neither statement alone can be considered sufficient to determine a unique value for x . Therefore, both statements together do not provide one definitive solution.

Thus, the correct answer is:

(D) Neither statement is sufficient

Quick Tip

When solving for a variable using statements, check if both statements lead to a single value or if they provide different solutions. If they do, neither alone may be sufficient.

11. Rearrange the following words to form a meaningful sentence: 1. Always 2. You 3.

Truth 4. Should 5. Speak

(A) 2, 4, 5, 1, 3

(B) 2, 5, 4, 1, 3

(C) 2, 4, 5, 3, 1

(D) 2, 4, 3, 5, 1

Correct Answer: (C) 2, 4, 5, 3, 1

Solution:

By arranging the words in a logical order, the correct sentence is: **You should always speak truth.**

Thus, the correct order is: 2, 4, 5, 3, 1.

Answer:

Quick Tip

When rearranging words, first look for the subject, followed by the action, and then complete the sentence logically.

12. A and B together can complete a task in 10 days. A alone can finish it in 15 days. In how many days can B alone finish the work?

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

Correct Answer: (B) 25 days

Solution:

Let the total work be W . The work done by A in 1 day is $\frac{1}{15}$ of the total work. The work done by A and B together in 1 day is $\frac{1}{10}$.

Let the work done by B in 1 day be b . The total work done by A and B together is:

$$\frac{1}{15} + b = \frac{1}{10}$$

Solving for b :

$$b = \frac{1}{10} - \frac{1}{15} = \frac{3 - 2}{30} = \frac{1}{30}$$

Therefore, B alone will take 30 days to finish the work.

Answer: 25

Quick Tip

To solve such problems, use the work formula $\text{Work} = \frac{1}{\text{Time}}$ and combine the rates for A and B together.

13. Find the missing number in the series: 121, 144, 169, 196, ?

- (A) 221
- (B) 225
- (C) 211
- (D) 210

Correct Answer: (B) 225

Solution:

Observe that the given numbers are perfect squares:

$$121 = 11^2, \quad 144 = 12^2, \quad 169 = 13^2, \quad 196 = 14^2$$

The next number in the sequence will be $15^2 = 225$.

Answer: 225

Quick Tip

When working with number series, look for patterns such as perfect squares, arithmetic sequences, or geometric sequences.