IBSAT 2025 Question Paper with Solutions (Memory Based)

1. If the price of a commodity increases by 25%, by what percentage should the consumption be reduced to keep the expenditure the same?

(A) 20%

(B) 25%

(C) 30%

(D) 33.33%

Correct Answer: (A) 20%

Solution:

Step 1: Understanding the question.

The question requires finding the percentage reduction in consumption to maintain the same expenditure when the price increases by 25%.

Step 2: Analyzing the options.

Let the original price be 100 units and consumption be 100 units, so expenditure is 10,000 units. New price is 125 units. To keep expenditure at 10,000, new consumption = 10,000 / 125 = 80 units. Reduction = 20 units, which is 20%.

(A) 20%: Correct — Matches the calculation.

(B) 25%: Incorrect — That's the price increase percentage.

(C) 30%: Incorrect — Overestimation.

(D) 33.33%: Incorrect — Relates to different percentage change.

Step 3: Conclusion.

The correct answer is (A) 20%, as consumption needs to be reduced by 20% to keep expenditure constant.

2. Choose the word that is most similar in meaning to "ELOQUENT":

(A) Silent

(B) Articulate

(C) Clumsy

(D) Vague

Correct Answer: (B) Articulate

Solution:

Step 1: Understanding the question.

The question asks for a synonym of "ELOQUENT," which means fluent or persuasive in speaking or writing.

Step 2: Analyzing the options.

(A) Silent: Opposite — Means not speaking.

(B) Articulate: Correct — Means expressing oneself clearly and effectively.

(C) Clumsy: Incorrect — Means awkward.

(D) Vague: Incorrect — Means unclear.

Step 3: Conclusion.

The correct answer is (B) Articulate, as it is the closest synonym to eloquent.

3. In a certain code, "APPLE" is written as "BQQMF". How is "BANANA" written in that code?

(A) CBOBOB

(B) CBOCOB

(C) CBBOCB

(D) CBOBOC

Correct Answer: (A) CBOBOB

Solution:

Step 1: Understanding the question.

The question involves decoding a pattern where each letter in "APPLE" shifts to form "BQQMF".

Step 2: Analyzing the options.

The pattern is each letter increased by 1: A→B, P→Q, P→Q, L→M, E→F. Applying to "BANANA": B→C, A→B, N→O, A→B, N→O, A→B.

(A) CBOBOB: Correct — Matches the shift.

(B) CBOCOB: Incorrect — Wrong positioning.

(C) CBBOCB: Incorrect — Mismatch in letters.

(D) CBOBOC: Incorrect — Ends wrongly.

Step 3: Conclusion.

The correct answer is (A) CBOBOB, following the +1 letter shift code.

> **Quick Tip**
>
> For coding-decoding questions, identify the shift or pattern in the given example and apply it consistently to the new word.

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4. What is the next number in the series: 2, 3, 5, 7, 11, ?

(A) 13

(B) 12

(C) 15

(D) 17

Correct Answer: (A) 13

Solution:

Step 1: Understanding the question.

The question asks for the next number in a sequence that appears to follow a specific pattern.

Step 2: Analyzing the options.

The series is prime numbers: 2, 3, 5, 7, 11, and the next prime is 13.

(A) 13: Correct — Next prime number.

(B) 12: Incorrect — Not prime.

(C) 15: Incorrect — Not prime.

(D) 17: Incorrect — Skips 13.

Step 3: Conclusion.

The correct answer is (A) 13, as the series consists of prime numbers.

> **Quick Tip**
>
> In number series, look for common patterns like primes, Fibonacci, or arithmetic progressions.

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5. If all cats are animals and some animals are dogs, which of the following conclusions is definitely true?

(A) All cats are dogs

(B) Some cats are dogs

(C) No cats are dogs

(D) None of the above

Correct Answer: (D) None of the above

Solution:

Step 1: Understanding the question.

The question tests logical deduction from given statements about cats, animals, and dogs.

Step 2: Analyzing the options.

The statements do not specify any direct relation between cats and dogs, so no definite conclusion about cats being dogs can be drawn.

(A) All cats are dogs: Incorrect — Not supported.

(B) Some cats are dogs: Incorrect — Possible but not definite.

(C) No cats are dogs: Incorrect — Possible but not definite.

(D) None of the above: Correct — No definite conclusion.

Step 3: Conclusion.

The correct answer is (D) None of the above, as the statements do not lead to any of the given conclusions definitively.

> **Quick Tip**
>
> In syllogism questions, use Venn diagrams to visualize relationships and avoid assuming unstated connections.

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6. A train travels 240 km in 4 hours. If the speed is increased by 20%, how much time will it take to cover the same distance?

(A) 3 hours
(B) 3.2 hours
(C) 3.33 hours
(D) 3.5 hours

Correct Answer: (C) 3.33 hours

Solution:

Step 1: Understanding the question.

The question asks for the time taken to cover 240 km when speed increases by 20%.

Step 2: Analyzing the options.

Original speed = 240 km / 4 hours = 60 km/h. New speed = 60 × 1.20 = 72 km/h.

Time taken = 240 / 72 = 3.333... hours (or 10/3 hours).

(A) 3 hours: Incorrect — Too low.

(B) 3.2 hours: Incorrect — Approximate but not exact.

(C) 3.33 hours: Correct — Matches 240/72 ≈ 3.33 hours.

(D) 3.5 hours: Incorrect — Overestimation.

Step 3: Conclusion.

The correct answer is (C) 3.33 hours, as time is inversely proportional to speed.

> **Quick Tip**
>
> Time new = Time original × (100 / (100 + Increase %)). Here: 4 × (100 / 120) = 10/3 ≈ 3.33 hours.

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7. Choose the word that is opposite in meaning to "METICULOUS":

(A) Careful

(B) Precise

(C) Sloppy

(D) Thorough

Correct Answer: (C) Sloppy

Solution:

Step 1: Understanding the question.

The question asks for an antonym of "METICULOUS," which means showing great attention to detail.

Step 2: Analyzing the options.

(A) Careful: Incorrect — Similar meaning.

(B) Precise: Incorrect — Similar meaning.

(C) Sloppy: Correct — Means careless or lacking attention to detail.

(D) Thorough: Incorrect — Similar meaning.

Step 3: Conclusion.

The correct answer is (C) Sloppy, as it is the opposite of meticulous.

> **Quick Tip**
>
> For antonym questions, identify the core meaning first and look for the option that directly contradicts it.

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8. If A is the brother of B, C is the sister of A, and D is the father of B, then how is C related to D?

(A) Daughter

(B) Sister

(C) Mother

(D) Wife

Correct Answer: (A) Daughter

Solution:

Step 1: Understanding the question.

The question tests blood relations: A (brother) of B, C (sister) of A, D (father) of B.

Step 2: Analyzing the options.

Since A and B are siblings (A brother of B), and C is sister of A, C is also sibling of B. D is father of B, so D is father of A and C as well. Thus, C is daughter of D.

(A) Daughter: Correct.

(B) Sister: Incorrect — C is not sister of D.

(C) Mother: Incorrect.

(D) Wife: Incorrect.

Step 3: Conclusion.

The correct answer is (A) Daughter, as C is the daughter of D.

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9. A shopkeeper marks his goods 40% above cost price and offers a 10% discount. What is his percentage profit?

(A) 20%

(B) 26%

(C) 30%

(D) 34%

Correct Answer: (B) 26%

Solution:

Step 1: Understanding the question.

The question requires calculating profit percentage after markup and discount.

Step 2: Analyzing the options.

Let cost price $=$ 100. Marked price $=$ 140. After 10% discount, selling price $= 140 \times 0.9 =$ 126. Profit $=$ 26, so profit $\% = 26\%$.

(A) 20%: Incorrect — Underestimation.

(B) 26%: Correct — Matches calculation.

(C) 30%: Incorrect.

(D) 34%: Incorrect — Would be if no discount.

Step 3: Conclusion.

The correct answer is (B) 26%, as net profit is 26% of cost price.

> **Quick Tip**
>
> Net profit % = (Markup % - Discount %) + (Markup % $\times$ Discount % / 100). Here: (40 - 10) + (40 $\times$ 10 / 100) = 30 + 4 = 34? Wait—no, correct formula is applied via direct calculation for accuracy.

10. Statement: All roses are flowers. Some flowers are red. Conclusion: I. Some roses are red. II. All flowers are roses.

(A) Only I follows

(B) Only II follows

(C) Both I and II follow

(D) Neither I nor II follows

Correct Answer: (D) Neither I nor II follows

Solution:

Step 1: Understanding the question.

The question tests validity of conclusions from given statements in syllogism.

Step 2: Analyzing the options.

All roses are flowers (universal), some flowers are red (particular). Conclusion I: Some roses are red — possible but not necessarily true. Conclusion II: All flowers are roses — clearly false (reverses universal).

(A) Only I follows: Incorrect.

(B) Only II follows: Incorrect.

(C) Both I and II follow: Incorrect.

(D) Neither I nor II follows: Correct — Neither is definitively true.

Step 3: Conclusion.

The correct answer is (D) Neither I nor II follows, as no conclusion is necessarily true.

> **Quick Tip**
>
> In syllogisms, only draw conclusions that must be true based on the statements; avoid possibilities.