FREE SAMPLE: THE FIRST 3 QUESTIONS

PART A: ANSWER ALL 25 QUESTIONS

50 marks · 2 marks for each question · write the answer and your working

Answer all the questions in this part. Write the answer to each question in the space provided. Marks are given for the correct answer; show your working as in the worked solutions.

Question 1 (2 marks)

Simplify $\frac{1}{8} + \frac{1}{2}$.

[2 marks]

Question 2 (2 marks)

The price of an article is Rs. 5,000. It is increased by 5%. Find the new price.

[2 marks]

Question 3 (2 marks)

A shopkeeper buys an article for Rs. 3,100 and sells it for Rs. 3,565. Find the profit as a percentage of the cost price.

[2 marks]

ST PAPERS HUB - NOT FOR RESALE OR REDISTRIBUTION

THE WORKED ANSWERS TO THOSE 3 QUESTIONS

Question 1 (2 marks) [Fractions]

Simplify $\frac{1}{8} + \frac{1}{2}$.

Answer: $\frac{5}{8}$

- Use the common denominator 8: $\frac{1}{8} = \frac{1}{8}$ and $\frac{1}{2} = \frac{4}{8}$.
- Combine the numerators: 1 + 4 = 5 over 8.
- Simplest form = $\frac{5}{8}$.

> **KEY TAKEAWAY**
> Add or subtract fractions over a common denominator, multiply straight across, then cancel to simplest form.

LOS: Fractions (G.C.E. O/L Mathematics, Part A)

Question 2 (2 marks) [Percentages]

The price of an article is Rs. 5,000. It is increased by 5%. Find the new price.

Answer: Rs. 5,250

- 5% of Rs. 5,000 = Rs. 250.
- The price is increased, so Rs. 5,000 plus Rs. 250.
- New price = Rs. 5,250.

> **KEY TAKEAWAY**
> Find the percentage of the original amount, then add it for an increase and subtract it for a decrease.

LOS: Percentages (G.C.E. O/L Mathematics, Part A)

Question 3 (2 marks) [Profit and loss]

A shopkeeper buys an article for Rs. 3,100 and sells it for Rs. 3,565. Find the profit as a percentage of the cost price.

Answer: 15%

- Profit = selling price − cost price = Rs. 3,565 − Rs. 3,100 = Rs. 465.
- Profit percentage = (profit ÷ cost price) × 100.
- = (465 ÷ 3100) × 100 = 15%.

> **KEY TAKEAWAY**
> Profit % is always taken on the cost price: profit ÷ cost × 100.

LOS: Profit and loss (G.C.E. O/L Mathematics, Part A)

TEST PAPER - NOT FOR RESALE OR REDISTRIBUTION