Assessment - 1

Term: 2023   Subject: Basic Mathematics
Course Number: MTH-101

Total Marks: 40
Answer all questions with reasoning.

Section A — MCQ with Reason (10 marks)

1. The value of 9×6 is:

    (a) 42

    (b) 45

    (c) 54

    (d) 63

2. $\frac{2}{5}$ of 50 equals:

    (a) 10

    (b) 15

    (c) 20

    (d) 25

3. The average (mean) of 12, 15, 18 is:

    (a) 14

    (b) 15

    (c) 16

(d) 17

4. If $2x + 7 = 19$, then $x =$:

    (a) 5

    (b) 6

    (c) 7

    (d) 8

5. A right triangle has legs of lengths 5 and 12. The hypotenuse is:

    (a) 11

    (b) 12

    (c) 13

    (d) 14

Section B — True/False with Reason (10 marks)

Write True or False in your answer file and include a brief reason.

6. 30% of 250 is 75.

7. The number 0 is neither positive nor negative.

8. The product of two even numbers is even.

9. The perimeter of a square with side 7 units is 28 units.

Section C — Solve (20 marks)

Show all steps clearly in your solution file. Each question carries equal marks unless indicated.

11. Compute: $36 \div 3 + 5 \times 4\}$. (4 marks)

11. Simplify the fraction: $\frac{45}{60}$ (write in lowest terms). (4 marks)

12. Solve for x: $5x - 9 = 16$. (4 marks)

13. Find the simple interest on $800 at 5% per year for 3 years. (4 marks)

14. A pen marked at $50 is sold at a 20% discount. Find the selling price. (8 marks)

End of Paper