



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)
- 12. Simplify the fraction: $\frac{45}{60}$ (write in lowest terms). (4 marks)
- 13. Solve for x : $5x - 9 = 16$. (4 marks)
- 14. Find the simple interest on \$800 at 5% per year for 3 years. (4 marks)
- 15. A pen marked at \$50 is sold at a 20% discount. Find the selling price. (8 marks)

End of Paper