Grade 10 - First Unit Test

Practice Paper 1

Mathematics

Based on Maharashtra Board Syllabus (NEP 2025-26) - 1st Quarter

Instructions:

- Duration: 1 hour
- Maximum marks: 20
- All questions are compulsory
- Show all your working clearly

Section A: Linear Equations in Two Variables (8 Marks)

1. Form a pair of linear equations for the following situation: The sum of two numbers is 15 and their difference is 3. **[2 marks]**

Equations: _____, _____

2. Solve the following pair of linear equations by elimination method: **[3 marks]**

x + y = 10

x - y = 2

Solution: x = _____, y = _____

3. Solve the following pair of linear equations by substitution method: **[3 marks]**

2x + y = 7

x = 3y - 1

Solution: x = _____, y = _____

Section B: Quadratic Equations (6 Marks)

4. Check if the following equation is a quadratic equation: x(x + 1) + 8 = (x + 2)(x - 2) **[2 marks]**

Answer: (Yes/No) _____

5. Find the roots of the following quadratic equation by factorization: **[4 marks]**

$x^2 - 5x + 6 = 0$

Roots: x = _____, x = _____

Section C: Arithmetic Progression (6 Marks)

6. Write the first four terms of an AP whose first term 'a' is 5 and common difference 'd' is 3. **[2 marks]**

AP: _____, _____, _____, _____

7. Find the 10th term of the AP: 2, 7, 12, ... **[4 marks]**

10th term (a_{10}) = _____

End of Practice Paper 1