Grade 10 - Second Unit Test

Practice Paper 1

Mathematics

Based on Maharashtra Board Syllabus (NEP 2025-26) - 2nd Quarter

Instructions:

• Duration: 1 hour

• Maximum marks: 20

• All questions are compulsory

• Show all your working clearly

Section A: Quadratic Equations (8 Marks)

1. Find the discriminant (Δ) for the quadratic equation: $2x^2 - 4x + 3 = 0$ [3 marks]

Discriminant (Δ) = _____

2. Find the roots of the quadratic equation using the quadratic formula: [5 marks]

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

Roots: x = _____, x = _____

Section B: Arithmetic Progression (6 Marks)

- 3. Find the sum of the first 10 terms of the AP: 2, 4, 6, 8, ... **[2 marks]** Sum $(S_{10}) =$ _____
- 4. The first term of an AP is 7 and the common difference is 4. Find the **[4 marks]** sum of the first 12 terms.

Sum (S₁₂) = _____

Section C: Probability (6 Marks)

5. A coin is tossed once. What is the probability of getting a tail?

[2 marks]

Probability = _____

- 6. A bag contains 3 red balls and 5 blue balls. A ball is drawn at random. **[4 marks]** What is the probability of drawing:
- a) A red ball? = _____
- b) A blue ball? = _____

End of Practice Paper 1

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