****

**MOCK TEST - 1**

**MATHEMATICS CORE (041)**

**GRADE –X Time Allowed: 40 mins**

**Date: 8.07.24 Maximum marks: 20**

**SECTION-A**

**I. MULTIPLE CHOICE QUESTIONS:** **3X 1 = 3**

1. If the roots of are equal , then the value of c is……..

a) b) c) d)

2. For what value of k, the roots of the quadratic equation are

real and equal?

a) k = b) k = c) k = d) k =

3. If the discriminant of a quadratic equation is less than zero then it has

a) equal roots b) real roots

c) no real roots d) can’t be determined

**SECTION – B**

**II. ANSWER THE FOLLOWING:** 3 **X 2= 6**

4. Find the nature of roots of the quadratic equation

5. Solve the following quadratic equation.

6. Find the dimensions of a rectangular park whose perimeter is 60m and area

200.

**SECTION – C**

**III. ANSWER THE FOLLOWING:** 2 **X 3 = 6**

7. Solve the quadratic equation:

8. Solve the following: = 0

**SECTION –E**

**V. ANSWER THE FOLLOWING:** **1X 5 = 5**

9. a) One fourth of a herd of camels was seen in the forest. Twice the square root of

the herd had gone to mountains and the remaining 15 camels were seen on the

bank of a river. Find the total number of camels.

or

b) Solve the following: