D.A.V. PUBLIC SCHOOL, CRRC, Medical Road, Gaya
Sunday Test (Date –01-09-2024)

Class – Xth **Time: 40 Min**
Sub. – Maths **F.M.- 20**

Section - A (2 × 5 = 10 Marks)

1. Find HCF and LCM of 404 and 96 and verify that HCF x LCM = product of the two given numbers.
2. Find the zeroes of the following quadratic polynomial $4u^2+8u$ and verify the relationship between the zeroes and coefficients.
3. Quadratic polynomial $2x^2 - 3x + 1$ has zeros as α and .Now form a quadratic polynomial whose zeros are 3 + and 3 .
4. If $\frac{2}{3}$ and -3 are the zeros of the polynomial $ax^2 + 7x + b$, then find the values of a and b .
5. Find the roots of the following quadratic equation by applying the quadratic formula.
   $4x^2 + 4\sqrt{3}x + 3 = 0$

Section - B (5 × 2 = 10 Marks)

6. Prove that $\sqrt{5}$ is irrational number and hence show that $3+\sqrt{5}$ is also an irrational number.

7. A two digit number is such that the product of its digits is 18 .When 63 is subtracted from the number, the digits interchange their places. Find the number.

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