

VIVEKANANDA COLLEGE, ALIPURDUAR

INTERNAL ASSESMENT, 2nd SEMESTER

PAPER-MINOR

SUB- MATHEMATICS

SESSION- 2023-2024

MARKS-10

Answer any one of the following questions

1. Is the system of equations $x + y - z = 6, 2x - 3y + z = 1, 2x - 4y + 2z = 1$ solvable? If so solve it.
2. Solve the equation $x^3 - 6x^2 + 3x + 10 = 0$, given that the roots are in A.P.

VIVEKANANDA COLLEGE, ALIPURDUAR
INTERNAL ASSESMENT
SEMESTER-6th , PAPER-SEC
SUB-MATHEMATICS
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MARKS- 5+5

1. Prove that the rate of change of K.E of a moving particle is equal to power of impressed force.
2. The path of a particle is circle. Find its radial and transverse acceleration.