

Shivaji College, University of Delhi
Department of Economics
Internal Test (2023-24)

Name of Course: B.A.(H) Economics

Duration: 1 hour

Semester : II

Max. Marks : 12

Name of Paper : Intermediate MME

Date of Test : 8th April, 2024

Faculty Name : Ms. Bhumnika Bhavnani

Answer all questions

Q-1. Consider the system of equations :

(6)

$$kx + y + z = 1$$

$$x + ky + z = 1$$

$$x + y + kz = 1$$

Find all values of k for which the system of equations has:

(i) unique solution

(ii) infinitely many solutions

(iii) no solution

Q-2. Solve the following system of linear equations:

(2)

$$x + 2y + z = 0$$

$$x - 2y - z = 0$$

$$x + 4y = 0$$

Q-3. Check whether the following system of equations is consistent or not:

(4)

$$-x + 3z = 2$$

$$2x + y - 4z = -1$$

$$x + 2y + z = 4$$

bhumnika