

B.A. Degree Examinations Even Semester 2021
III Year V Semester
Mathematics for Economists

Max Marks: 25

Answer any Five questions (5 * 5 = 25)

1. What are the different types of matrices?
2. State the features of input-output analysis.
3. Find dy/dx if $y = x^5 + x^2 - 3x + 5$.
4. Analyze the various conditions for profit maximization.
5. Mention the properties of a homogeneous function.
6. Highlight the various rules of differentiation.
7. Solve the below equation using Cramer's Rule.

$$2x + 3y - z = 1$$

$$4x + y - 3z = 11$$

$$3x - 2y + 5z = 21$$