

BA.ECO (H): I- Semester

Mathematics for Economics-I

Exam Code: 105

OBJECTIVE: To enable professional undergraduate students to understand the importance of Mathematics in Economics.

QUESTIONS:

- 1) Discuss Dependence of Vectors, Eigen -Vectors of a Matrix.
- 2) Discuss Sets, Subsets, Equal Sets Universal Sets, Finite and Infinite Sets, Operation on Sets, Union, Intersection and Complements of Sets, Cartesian Product, Cardinality of Set, Simple Applications.

- 3) Write the following sets in set builder form

$$A = \{1, 3, 5, 7, 9, 11\}$$

$$B = \{a, e, i, o, u\}$$

- 4) Define relation with example.

- 5)
$$\lim_{x \rightarrow 2} \left(\frac{|x-2|}{x-2} \right)$$

PROCEDURE:

For completing the assignment students should refer to the books mentioned in syllabus and they can take help from internet. The assignment should be handwritten and properly filled. Students should make assignment in the following manner:

1. Cover page
2. Objectives
3. Index
4. Content
5. Conclusion
6. References
7. Softcopy AND Hardcopy
8. Give proper headings and subheadings
9. Explain every topic in points and using diagrams.
10. Put Examples

OUTCOME:

After doing this assignment, students will come to understand the importance of Mathematics in Economics.

Reference Books:

Kresyig E., "Advanced Engineering Mathematics", 5th Edition, John Wiley & Sons, 1999.

Babu Ram, "Engineering Mathematics", Pearson Education.