



LOYOLA COLLEGE (AUTONOMOUS) CHENNAI – 600 034

B.A. DEGREE EXAMINATION – ECONOMICS

FIFTH SEMESTER – APRIL 2025

UEC 5504 – BASIC ECONOMETRICS



Date: 06-05-2025

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

SECTION A

ANSWER ANY FOUR OF THE FOLLOWING

4 X10=40 Marks

1. Describe the relationship between Statistics, Mathematics and Econometrics.
2. Write a note on the following a) Random Variables and b) Probability Distribution Function.
3. Compare and contrast Point estimation from Interval estimation.
4. Elaborate a Two Variable Regression model using an example.
5. Discuss on significance of Goodness of Fit ' r^2 '.
6. Classify the divisions of econometrics.
7. Distinguish between a Two variable and Linear Multiple Regression.
8. Explain the nature of stochastic error term.

SECTION – B

ANSWER ANY THREE OF THE FOLLOWING

3 X 20 =60 Marks

9. Discuss the nature and scope of the Econometrics.
10. Explain the Central Limit Theorem using a suitable example.
11. Elaborate the properties of good estimator.
12. Examine the stochastic assumptions of an error term.
13. Derive the two normal equations and regression coefficients for a Simple Linear Regression.
14. Compare and contrast Population Regression Function and Sample Regression Function.
