

20-3-17



DOON UNIVERSITY DEHRADUN

Midterm Examination: March, 2017

School of Social Sciences

M Sc (Economics), Sixth Semester

Course: ECONOMETRICS

SSEI-532

Time Allowed : 2 Hours

Maximum Marks : 30

Note: Attempt all sections.

Section: A (Short Answer Type Questions to be answered in about 50-75 words).

Write short notes on any Twelve Questions.

(Marks : .5X12=6)

1. The Econometric Society (1930) definition of Econometrics
2. Types of Econometrics
3. Population
4. Gauss-Markov Theorem (only Statement)
5. Explanatory Variables
6. Regression Coefficients
7. Regression Parameters
8. Stochastic Variables
9. Inferential Statistics
10. Descriptive Statistics
11. Ordinal Scale
12. Nominal Scale
13. Calmfors- Driffill Hypothesis (in context of Quadratic Functions in Econometrics)
14. Kuznets Curve (in context of Quadratic Functions in Econometrics)
15. Statement of Theory or Hypothesis
16. The OLS Method (only statement)

SECTION : B (Short Answer Type Questions to be answered in about 250 words each)

Attempt any Four Questions.

(Marks : 4X3=12)

1. What is/are meant by (a) Econometrics? (b) The Functions of Econometrics (c) Aspects of Econometrics make it basically different from most Physical Sciences.
2. Discuss Regression and its objectives with suitable examples.
3. What is meant by (a) Regression Analysis (b) disturbance or error term
4. What justifies the inclusion of a disturbance or error term in regression analysis?
5. Discuss three stages of Econometric Research in context of Methodology of Econometrics.
6. In what way and for what purpose are (a) economic theory, (b) mathematics, and (c) Statistical analysis combined to form the field of study of econometrics?

SECTION: C (Long Answer Type Questions to be answered in about 750 words)

Attempt Question 1 [compulsory] any one from the remaining two Questions.

(Marks : 6X2=12)

1. Illustrate the steps used to develop the Population Regression Function with data from the following table 1

Study Hours, H	Grades, G
1	25, 30, 35, 40, 45
2	35, 40, 44, 50, 55, 58
3	49, 54, 60, 64, 68
4	50, 63, 65, 73, 78, 83, 85
5	72, 77, 80, 86, 88, 95

2. Explain Linear Functions with examples (a) Linear Demand Functions ,(b) Linear-Log Functional Form, (c) Cobb-Douglas Production Function
3. Discuss following structure of Data with suitable examples.
 - (a) Cross-Sectional Data
 - (b) Time Series Data
 - (c) Pooled Data/Pooled Cross Sections
 - (d) Panel/Longitudinal Data