Third Semester B.A. Degree Examination, February 2024

First Degree Programme under CBCSS

Economics

Foundation Course II

EC 1321 : INFORMATICS FOR APPLIED ECONOMETRICS

(2019 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – I

Answer **all** questions in **one** or **two** sentences. **Each** question carries **1** mark.

1. What is meant by informatics?

2. What does INFLIBNET stand for?

3. Define Mathematical economics.

4. Describe the Cross-Sectional Data.

5. What is meant by Economic model.

6. Define Error term.

7. Describe Estimation.

8. What is meant by Explanatory Variable.

9. Define Null Hypothesis.

10. What is Gretl?

(10 × 1 = 10 Marks)

SECTION – II

Answer any **eight** questions not exceeding one paragraph. **Each** question carries **2 marks**.

11. What are important academic information network relevant to economics?

12. Describe the primary purpose of a blog?

13. What is meant by podcast?

14. Define the stochastic specification of the PRF.

15. Describe the Measurement scales of variables?

16. What are the functions of econometrics?

17. Discuss the meaning of Degrees of Freedom.

18. Describe Conditional mean value.

19. What is meant by Normal Distribution?

20. Define point estimation, and how does it differ from interval estimation?

21. Name the commonly used statistical software.

22. What is the role of the "Script" menu in Gretl?

SECTION – III

(8 × 2 = 16 Marks)

Answer any **six** questions not exceeding **120** words. **Each** question carries **4 marks**.

23. Examine the role of ICT in economics.

24. Define Econometrics? Discuss the nature and scope of econometrics.

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25. State and explain the methodology of Econometrics.

26. Explain the role of random error term in the regression model.

27. What is meant by goodness of fit in econometric model? Explain.

28. Explain the meaning and types of the regression model.

29. Examine the is primary purpose of using statistical software in social science research?

30. Describe the purpose of hypothesis testing?

31. Explain the advantages of using Gretl for econometric analysis?

(6 × 4 = 24 Marks)

SECTION – IV

Answer any **two** questions not exceeding 4 pages. **Each** question carries **15** marks.

32. Explore the evolution of e-books and their impact on the accessibility and dissemination of economic literature.

33. State and explain the assumptions of Classical Linear Regression Model?

34. State and prove that the OLS estimators are BLUE.

35. Estimate the least square regression Model for the data on Weekly incomes and expenditures of seven households given in the table below and interpret the results?

Income in (1000s)	8	10	12	14	16	18	20
Expenditure (1000s)	6	9	10	12	13	14	15

(2 × 15 = 30 Marks)

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