Reg. No. : ....

Name : ....

Third Semester B.A. Degree Examination, March 2022

First Degree Programme under CBCSS

Economics

Foundation Course – II

EC 1321 : INFORMATICS FOR APPLIED ECONOMETRICS

(2019 & 2020 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – I

Answer **all** questions. Answer in **1** or **2** sentences.

1. Computer network

2. Podcasts

3. NICNET

4. Audio Books

5. Panel Data

6. PRF

7. Econometric model

8. Regression

9. Inference

10. Open source software.

(10 × 1 = 10 Marks)

Answer **any eight** questions not exceeding **1** paragraph. Each question carries **2** marks

11. What are the activities of INFLIBNET Centre?

12. What are the different scales of measurements?

13. Define the Conditional mean value.

14. Explain the limitations of econometrics.

15. What is meant by Error term?

16. What are the divisions of econometrics?

17. Explain Goodness of fit.

18. Describe meaning of the specification stage.

19. What is meant by linearity?

20. What is meant by Inference?

21. Discuss the stochastic specification of SRF.

22. Write short notes on estimation.

23. Define normal distribution.

24. Briefly explain the digital audio files.

25. What is meant by the open educational resources?

26. Write a note on information network.

(8 × 2 = 16 Marks)

SECTION – III

Answer **any six** of the following. Each answer should not exceed **120** words. Each question carries **4** marks.

27. Write a note on the Emergence of MOOC.

28. Discuss the nature and scope of econometrics.

29. Explain the reason for introducing U in econometric model.

30. Explain the numerical properties of OLS Estimators.

31. What is meant by the coefficient of determination? Discuss.

32. Briefly explain the meaning and significance of Standard Error.

33. Explain the method evaluation of the coefficients of the model.

34. Distinguish between correlation and regression.

35. Explain the significance of mean and variance.

36. Write a note on the use of Gretl.

37. What are the procedures of statistical testing? Explain.

38. Discuss the types of podcasts.

(6 × 4 = 24 Marks)

SECTION – IV

Answer **any two** of the following. Each answer should not exceed 4 pages. Each question carries **15** marks.

39. Critically examine the Role of Technology and Networks in Education.

40. State and explain the assumptions of Classical Linear Regression Model.

41. Explain the method of derivation of equations of OLS estimators with example.

42. What are the important statistical softwares for social science research? Explain.

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

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

Income in (1000s)	4	8	6	8	9	11	7	7	10	10
Expenditure(2000s)	6	7	9	10	10	10	11	11	12	14

(2 × 15 = 30 Marks)

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