

(Pages : 4)

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Reg. No. :

Name :

Third Semester B.A. Degree Examination, January 2023

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. Answer in **one** or **two** sentences.

1. ICT
2. Blogs
3. INFLIBNET
4. E-books
5. Pooled data
6. SRF
7. Economic model
8. Error term

P.T.O.

9. Point estimator

10. Dataset

(10 × 1 = 10 Marks)

SECTION – II

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

11. What are important online resources?
12. What is meant by Information Networks?
13. What do you mean by an economic model?
14. Define the Principle of Least square.
15. Distinguish between Specification stage and estimation stage.
16. Differentiate between regression and correlation.
17. What are the various types of data? Explain.
18. Distinguish between the parameter and statistic.
19. What is meant by Deterministic relation?
20. Describe the Ratio scale.
21. Distinguish between theoretical and applied econometrics.
22. Write the implication of forecasting.
23. Define homoscedasticity.
24. What are the features of normal distribution?
25. Explain the concept of unbiasedness.
26. What is meant by degrees of freedom?

(8 × 2 = 16 Marks)

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SECTION – III

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

27. What is MOOC? Discuss important characteristics of MOOC.
28. Give an account on the nature and use of Podcasts.
29. Discuss the advantage of open resources.
30. Explain the Meaning and objectives of Regression analysis.
31. Describe the concept of goodness of fit of regression line.
32. Discuss the important assumption about U in econometrics.
33. Point out the main application of regression Analysis.
34. Explain the significance of statistical analysis.
35. Why does econometrics is a separate discipline? Discuss.
36. Explain the features of Gretl.
37. Describe the uses of SPSS.
38. Discuss the meaning and significance of Confidence Interval.

(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. Explain the role of ICT in Economics.
40. What is Econometrics? State and explain the steps of econometrics methodology with example.

41. State and prove the Gauss Markov theorem.
42. Discuss the significance and procedure of hypothesis testing in econometrics.
43. Critically examine the use of statistical software in social science research.
44. Fit a regression line for the following data and interpret the results.

$$\sum Y = 648$$

$$\sum X = 80$$

$$\sum (Y - \bar{Y})^2 = 368$$

$$\sum (X - \bar{x})^2 = 218$$

$$\sum (X - \bar{x})(Y - \bar{Y}) = 247 \quad n = 8$$

(2 × 15 = 30 Marks)