2.6.

TB245655X

Reg. No :..............................

Name :..................................

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024

2022 ADMISSIONS REGULAR

SEMESTER V - CORE COURSE (ECONOMICS)

EC5B10B18 - Introductory Econometrics

Time : 3 Hours **Maximum Marks : 80**

Part A

I. Answer any Ten questions. Each question carries 2 marks **(10x2=20)**

1. Describe the terms 'estimate' and 'estimator' of parameters.
2. What is deterministic component of a regression equation?
3. State Population Regression Function and Sample Regression Function in the form of equations.
4. Distinguish between population and sample.
5. Differentiate positive autocorrelation and negative autocorrelation.
6. Suggest remedial measures to deal with the problem of heteroscedasticity.
7. Explain Glejser test.
8. How can we use dummy variable as proxies for dependent variable?
9. How can we express gender as a dummy variable in a regression equation?
10. State a linear demand regression function.
11. Examine the role of time in lagged models.
12. Examine the value of lag coefficient in Koyck model.

Part B

II. Answer any Six questions. Each question carries 5 marks **(6x5=30)**

13. Interpret unbiasedness and least variance properties of estimators.
14. Elucidate the procedure involved in the estimation of parameters by OLS method.
15. Does OLS satisfy BLUE? Explain.
16. Analyse the reasons for the occurrence of heteroscedasticity.
17. Are the OLS estimators BLUE under heteroscedasticity? Discuss.
18. Examine the nature of dummy variables.
19. State a dummy variable regression equation. What is dummy variable trap?
20. Explain lagged models. Illustrate a dynamic econometric model by introducing lagged values of explanatory variable.
21. Discuss the reasons for lags in economics?

Part C

III. Answer any Two questions. Each question carries 15 marks **(2x15=30)**

22. What is an estimator? What are the characteristics that an estimator should have?
23. Explain Gauss-Markov theorem by using appropriate diagrams.
24. Discuss the nature of the problem of heteroscedasticity. Summarize the methods to detect the problem of heteroscedasticity.
25. Write a note on Koyck distributed lag model. How has the Koyck model been rationalised?