Reg. No ....   Name **23U556**

B.A DEGREE END SEMESTER EXAMINATION : NOVEMBER 2023
SEMESTER 5 : ECONOMICS
COURSE : **19U5CRECO10 : INTRODUCTORY ECONOMETRICS**
(For Regular 2021 Admission and Supplementary 2020/2019 Admissions)

Time : Three Hours   Max. Marks: 75

PART A
Answer All (1 mark each)

1. Gauss Markov Theorem.
2. Large sample properties.
3. Lin-log model.
4. Standard Error.
5. Hypothesis.
6. Least Square Method.
7. Stochastic disturbance term.
8. Sequencing.
9. What is Autocorrelation?
10. Explain Durbin-Watson test for Autocorrelation.

                                                                                           (1 x 10 = 10)

PART B
Answer any 8 (2 marks each)

11. Diagrammatically represent the presence of autocorrelation.
12. Omitted Variable Bias.
13. Compound rate of growth.
14. Regression Analysis.
15. What are the desirable properties of good econometric model?
16. What is stochastic specification of PRF?
17. The Cochrane-Orcutt (CO) transformation.
18. Choice of functional form.
19. Stochastic specification of the SRF.
20. Perfect Multicollinearity.

                                                                                           (2 x 8 = 16)

PART C
Answer any 5 (5 marks each)

21. What is Multicollinearity? Explain its causes and consequences.
22. What are the uses and limitations of econometrics?
23. Explain the transformation of nonlinear regression models to linear relationships.
24. Analyse the various steps involved in econometrics research.
25. Discuss the difference between Log-lin model and Lin-log model.
26. How can we ensure precision or reliability of OLS estimators $\widehat{\beta}_1$ and $\widehat{\beta}_2$?
27. Elaborate the coefficient of determination.

                                                                                           (5 x 5 = 25)

PART D
Answer any 2 (12 marks each)

28. Define Multiple Regression Models? Discuss the importance of such models and its underlying assumptions.

29. What problem does heteroscedasticity cause? Discuss its nature and remedial measures?

30. Describe Classical Linear Regression Model.

31. Define econometrics and discuss the scope and limitations of the subject.

(12 x 2 = 24)