SIXTH SEMESTER BA DEGREE EXAMINATION, APRIL 2025

(Regular/Improvement/Supplementary)

ECONOMICS

GECO6E01T: BASIC ECONOMETRICS

Time: 2 Hours   **Maximum Marks: 60**

SECTION A: Answer the following questions. Each carries *two* marks.
(Ceiling 20 marks)

1. What is meant by sample statistic?

2. Define the term coefficient of determination.

3. Write a note on P value.

4. What is meant by "degrees of freedom"?

5. Write notes on Type I and Type II errors.

6. Define dummy variables.

7. What are reciprocal models?

8. Define multicollinearity.

9. Write a note on TOL.

10. Define homoscedasticity.

11. Write a note on VIF.

12. What are the desirable properties of an economic model?

SECTION B: Answer the following questions. Each carries *five* marks.
(Ceiling 30 marks)

13. Distinguish between economic theory, mathematical economics and econometrics

14. Discuss the t-test procedure for hypothesis testing in the simple linear regression model.

15. Write a note on log-log and log-lin models.

16. Write short notes on Population Regression Function and Sample Regression function.

17. State and explain Gauss Markov theorem.

18. Discuss the procedure for estimating a production function.

19. Briefly explain Breusch Pagan test of heteroscedasticity.

SECTION C: Answer any *one* question. The question carries *ten* marks.

20. What are the assumptions of classical linear regression model?

21. Define the term autocorrelation. Explain the major methods to detect autocorrelation.

(1 x 10 = 10 Marks)