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Name: .....

Reg.No: .....

**SIXTH SEMESTER B.A. DEGREE EXAMINATION, APRIL 2024**

(CBCSS - UG)

(Regular/Supplementary/Improvement)

**CC19U ECO6 B16 - BASIC ECONOMETRICS**

(Economics - Elective Course)

(2019 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

**Part A** (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Give an example of an econometric model.
2. How are economic theory and economic statistics related?
3. What is an intercept term and the slope coefficient in a linear regression model?
4. What is a population regression function?
5. Write an note on the Method of Ordinary Least Squares.
6. Explain the assumption of multicollinearity in regression model.
7. Define t-test.
8. Define adjusted  $R^2$ .
9. Illustrate the Anova table for a three variable regression model.
10. Explain the procedure for testing the equality of two regression coefficients.
11. Bring out the t-test approach for restricted least squares.
12. Define heteroscedasticity.

**(Ceiling: 20 Marks)**

**Part B** (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Bring out the nature and limitations of Econometric analysis.
14. Explain the Coefficient of determination,  $r^2$ .
15. Explain the functional form used to measure elasticity.
16. Explain the meaning and interpretation of partial regression coefficients.

17. Define partial regression coefficients.
18. Explain dummy variable and the precautions in the use of dummy variables.
19. Explain the remedial measures for solving the problem of autocorrelation.

**(Ceiling: 30 Marks)**

**Part C (Essay questions)**

Answer any *one* question. The question carries 10 marks.

20. Explain the BLUE properties of OLS estimators.
21. Define multicollinearity. Explain the causes, consequences, detection and remedial measures of multicollinearity.

**(1 × 10 = 10 Marks)**

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