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

Name :

VI Semester B.A. Degree (CBCSS-Supple./Improv.) Examination, April 2022 (2016 – 2018 Admissions)

CORE COURSE IN ECONOMICS/DEVELOPMENT ECONOMICS

6B15ECO: Basic Econometric Analysis

Time: 3 Hours

Max. Marks: 40

PART - A

Answer all questions. Each carries one mark.

- 1. What is an economic model ?
- 2. Describe the meaning of linearity.
- 3. Define Pooled data.
- Describe the Principle of Least square.

 $(4 \times 1 = 4)$

PART - B

Answer any seven questions. Each carries two marks.

- Distinguish between specification stage and estimation stage.
- Examine the relationship between Econometrics and Mathematical Economics.
- 7. Discuss Stochastic and Non-Stochastic Relations.
- 8. What is meant by Conditional Expectation?
- 9. Describe the meaning of Partial Regression Coefficients.
- 10. What is Alternative Hypothesis?
- Define the Statistical Inference.

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- 12. What is meant by Degrees of Freedom?
- 13. Describe the p-value.
- 14. What is the Autoregressive scheme? Discuss.

 $(7 \times 2 = 14)$

PART - C

Answer any four questions. Each carries three marks.

- 15. Explain the meaning and significance coefficient of determination.
- Discuss the reason for introducing U in econometric model.
- 17. Give an account of Multiple Regression Analysis.
- 18. Explain meaning, types and methods of estimation.
- 19. Examine the Heteroscedasticity and different test for it.
- 20. Briefly discuss the Durbin Watson's 'd' statistic.

(4×3=12)

PART – D

Answer any two questions. Each carries five marks.

- 21. What is Econometrics? State and explain the steps of econometrics methodology with example.22. State and prove that the OLS estimators are BLUE.
- 23. What is multicollinearity? Briefly explain the reasons, consequences and
- remedial measures of multicollinearity.
- Given the following data on number of hours which 10 students studied and their scores on test.

Hours	X	4	9	10	14	4	7	12	22	1	17
Score	Υ	31	58	65	73	37	44	60	91	21	80

- test scores (Y) on number of hours studies (X). b) Find the estimated score for the number hours of study 4 (Y $\hat{i}_{x=4}$). (2x5=10)
- b) This the committee doors to the name of the same of