

Reg. No

Name

22P338 - S

M. A. DEGREE END SEMESTER EXAMINATION - OCTOBER 2022

SEMESTER 3 : ECONOMICS

COURSE : 16P3ECOT14 : BASIC ECONOMETRICS

(For Supplementary - 2016/2017/2018/2019/2020 Admissions)

Time : Three Hours

Max. Marks: 75

PART A

Answer any 8 (2 marks each)

1. $\hat{\beta}$ in deviation form
2. Normality assumption
3. Efficient Estimator
4. Functional forms of regression models.
5. Feasible generalized least squares (FGLS)
6. Reason for heteroscedasticity
7. Analysis of Variance (ANOVA) models
8. Dummy Variables
9. Cumulative Distribution Function (CDF)
10. Dynamic models
11. Infinite lag models
12. Weierstrass' theorem

(2 x 8 = 16)

PART B

Answer any 7 (5 marks each)

13. State and prove the Gauss Markov theorem.
14. Discuss the method of ordinary least squares.
15. What is stochastic variable? Explain the reason for introducing 'U' in econometric model.
16. Explain the consequences of OLS estimators in the presence of autocorrelation.
17. Consequences of model specification errors
18. Discuss the Tobit model.
19. "Econometricians should be cautious while using dummy variables in a model".
Substantiate.
20. What are the features of Time series econometrics?
21. Summarize the Koyck approach to distributed lag models.
22. Summarise estimation of production and cost function.

(5 x 7 = 35)

PART C

Answer any 2 (12 marks each)

23. State and explain the assumptions of CLRM with examples
24. What is Autocorrelation? Explain the causes, consequences and test used for detecting autocorrelation.
25. Summarize Simultaneous equation systems
26. Explain the autoregressive and distributed lag models.

(12 x 2 = 24)