M. A. DEGREE END SEMESTER EXAMINATION : NOVEMBER 2023
SEMESTER 3 : ECONOMICS
COURSE : **21P3ECOT14 : BASIC ECONOMETRICS**
(For Regular - 2022 Admission and Supplementary - 2021 Admission)

Duration : Three Hours   Max. Weights: 30

PART A
Answer any 8 questions   **Weight: 1**

1.	Bernoulli probability distribution.	(An, CO 3)
2.	Just identification.	(An, CO 3)
3.	Multiple Regression.	(U, CO 1)
4.	Reduced-form equations.	(U, CO 3)
5.	Conditional mean.	(U, CO 1)
6.	Diagramatically show the Sample Regression Line.	(A, CO 1)
7.	Autocorrelation.	(U, CO 2)
8.	The Durbin-Watson test.	(U, CO 2)
9.	The Almon model.	(An, CO 4)
10.	Economic forecasting.	()

(1 x 8 = 8)

PART B
Answer any 6 questions   **Weights: 2**

11.	How to measure short run and long run elasticities?	(An, CO 4)
12.	Summarize the Koyck approach to distributed lag models.	(An, CO 4)
13.	Examine the Identification problems and conditions for identifying an equation ?	(U, CO 3)
14.	Explain the consequences of OLS estimators in the presence of autocorrelation.	(E, CO 2)
15.	What are the features of Time series econometrics?	(An, CO 4)
16.	How to resolve the issue of multicollinearity?	(U, CO 2)
17.	Differentiate between PRF and SRF.	(U, CO 1)
18.	Explain the probit model with suitable example.	(An, CO 3)

(2 x 6 = 12)

PART C
Answer any 2 questions   **Weights: 5**

19.	Explain the Gauss Markov theorem. State and prove that the OLS estimators are BLUE.	(E, CO 1)
20.	Explain the errors involved in violating the assumptions of classical linear regression model ?	(An, CO 2)
21.	Explain the autoregressive and distributed lag models.	(E, CO 4)
22.	Examine Models with Qualitative Dependent Variables.	(An)

(5 x 2 = 10)

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
CO 1	Understands how to apply regression techniques to statistical data and the basic assumptions of regression techniques	U	3, 5, 6, 16, 18	10
CO 2	Acquires the skills to interpret models involving qualitative information and to deal with equations involving simultaneity	R	7, 8, 13, 15, 19	11
CO 3	Learning to introduce dynamicity to the econometric models and to effectively estimate such models.	An	1, 2, 4, 12, 17	7
CO 4	Learning the basics of time series econometrics and attain conceptual clarity.	A	9, 10, 11, 14, 20	12

Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;