M. A. DEGREE END SEMESTER EXAMINATION - OCTOBER 2024
SEMESTER 3 : ECONOMICS
COURSE : **21P3ECOT14 ; BASIC ECONOMETRICS**
(For Regular 2023 Admission and Supplementary 2022/2021 Admission)

Duration : Three Hours   Max. Weights: 30

PART A
Answer any 8 questions   Weight: 1

1.	Numerical properties of OLS	(U, CO 1)
2.	Negative residuals	(U, CO 1)
3.	Simultaneous-Equation Bias	(An, CO 3)
4.	Ordinary Least Square	(E, CO 1)
5.	Elaborate the important features of log linear models.	(An, CO 2)
6.	Structural equations	(A, CO 3)
7.	Auxiliary regression and the variance inflation factor (VIF)	(U, CO 2)
8.	Engel Elasticity	(U, CO 4)
9.	Dummy Variables	(U, CO 3)
10.	The Median Lag	(U, CO 4)

(1 x 8 = 8)

PART B
Answer any 6 questions   Weights: 2

11.	Discuss the consequences of OLS estimators in the presence of multicollinearity.	(E, CO 2)
12.	What are the features of Time series econometrics?	(An, CO 4)
13.	"2SLS method can be used if the equation is over-identified". Explain?	(An)
14.	Explain the probit model with suitable example.	(An, CO 3)
15.	How to resolve the issue of multicollinearity?	(U, CO 2)
16.	How to measure short run and long run elasticities?	(An, CO 4)
17.	What is stochastic variable? Explain the reason for introducing 'U' in econometric model.	(An, CO 1)
18.	Discuss the method of Instrumental Variables (IV).	(A, CO 4)

(2 x 6 = 12)

PART C
Answer any 2 questions   Weights: 5

19.	Summaize the different functional forms of regression models with suitable example.	(An, CO 2)
20.	State and explain the assumptions of CLRM with examples	(An, CO 1)
21.	Explain the autoregressive and distributed lag models.	(E, CO 4)
22.	Explain the order and rank conditions for identifying simultaneous equations.	(A, CO 3)

(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	1, 2, 4, 17, 20	10
CO 2	Acquires the skills to interpret models involving qualitative information and to deal with equations involving simultaneity	R	5, 7, 11, 15, 19	11
CO 3	Learning to introduce dynamicity to the econometric models and to effectively estimate such models.	An	3, 6, 9, 14, 22	10
CO 4	Learning the basics of time series econometrics and attain conceptual clarity.	A	8, 10, 12, 16, 18, 21	13

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