Reg. No ....   Name **22P338**

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

Duration : Three Hours   Max. Weights: 30

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

1.	Instantaneous rate of growth	(R, CO 2)
2.	Omitted Variable Bias?	(U, CO 2)
3.	Statistical inference.	(U, CO 1)
4.	Koyck transformation.	(An, CO 4)
5.	Statistical properties of OLS	(U, CO 1)
6.	BLUE	(An, CO 1)
7.	Cumulative Distribution Function (CDF)	(U, CO 3)
8.	Identification problem	(An, CO 3)
9.	Linear Probability Model (LPM)	(An, CO 3)
10.	Engel Elasticity	(U, CO 4)

(1 x 8 = 8)

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

11.	Discuss the types of multicollinearity?	(U, CO 2)
12.	State and explain the assumptions of CLRM.	(An, CO 1)
13.	"2SLS method can be used if the equation is over-identified". Explain?	(An)
14.	Explain any two methods to correct the problem of Heteroscedasticity	(An, CO 2)
15.	Discuss the method of Instrumental Variables (IV).	(A, CO 4)
16.	Summarise estimation of production and cost function.	(U, CO 4)
17.	Discuss the rules for identification	(An, CO 3)
18.	Elaborate the features of Kyock distributed lag models.	(U, CO 4)

(2 x 6 = 12)

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

19.	Explain the Indirect Least Square method of estimating simaltaneous equation system ? Also discuss the superiority of 2SLS method over ILS method?	(E)
20.	State and explain the assumptions of CLRM with examples	(An, CO 1)

21. What is Autocorrelation? Explain the causes, consequences and tests used for detecting autocorrelation. (An, CO 2)

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

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