School of Liberal Education
Bachelor of Arts Honours in Economics
Semester End Examination - Nov 2023

Duration : 180 Minutes
Max Marks : 100

Sem V - K1UB505T - Econometrics I

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1)	Analyze the dataset and identify potential predictor variables for the multiple linear regression model.	K1 (2)
2)	The average test marks in a particular class is 79. The standard deviation is 5. If the marks are distributed normally, how many students in a class of 200 did not receive marks between 75 and 82?	K2 (4)
3)	Elaborate the procedure of testing hypothesis.	K2 (6)
4)	Incorporate dummy variables in OLS regression models.	K3 (9)
5)	Interpret the coefficients of the multiple linear regression model in the context of the problem domain.	K3 (9)
6)	Give an example of a situation where the binomial distribution would be an appropriate model.	K5 (10)
7)	Implement a multinomial logit model for categorical outcomes.	K4 (12)
8)	How can you use the binomial distribution to calculate cumulative probabilities?	K5 (15)
9)	Explain the concept of the 68% confidence interval for a normal distribution.	K5 (15)
10)	Interpret the model's R-squared value and adjusted R-squared value to measure the proportion of variance explained by the model.	K6 (18)