

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2022

Course: Introductory Econometrics

Program: BA (Hons.) Economics

Course Code: ECON 2017

Semester : IV

Duration : 03 hrs.

Max. Marks: 100

Instructions: Read the question paper carefully

O No	Section A	10Qx2M=20Marks	COs
Q. No	Fill in the blanks	2 Marks each	CO1
Q1	A: Econometrics is the combination of	2*5=10 Marks	COI
	B: Gender isvariable.		
	C: When the independent variables are correlated, it's		
	called		
	D: To compare the two regression model, we use E: Formula of VIF is		
	True or False	2 Marks each	GOA
Q2	A: Heteroskedasticity refers to situations where the variance of the	2*5 = 10 marks	CO2
	residuals is unequal over a range of measured values		
	(TRUE/FALSE)		
	B: In case of Perfect Multicollinearity, the STATA software will		
	give the results (TRUE/FALSE)		
	C: In Case of Dummy Variable, 1 represents the presence of a		
	qualitative attribute, and 0 represents the absence. (TRUE/FALSE)		
	D: In the regression, t values = Beta coefficient/P values (TRUE/FALSE)		
	E: Time series data is the data that is collected at different points in time (TRUE/FALSE)		
	Section B	4Qx5M= 20 Marks	
Q1	Explain the concept of Dummy Variable.	5 Marks	CO2
Q2	What are lagged variables?	5 Marks	CO3
Q3	Give reasons for the inclusion of the 'disturbance term'/ 'Error	5 Marks	CO2
Q5	Term' in an econometric model.		002
Q4	Critically evaluate the R square and adjusted R square in the regression model.	5 Marks	CO2
	Section C	3Qx10M=30 Marks	
Q1	Demonstrate the assumption of Classical Linear Regression Model (CLRM).		CO4
Q2	A: What is Dummy Variable Trap explain (5 marks)	10 Marks	CO4
\\\^2	B: A short note on CMIE database (5 marks)		

Q3	Explain th	ne four meas		CO4					
	Demonst	rate the ad							
		e limitation							
			2Qx15M= 30 Marks						
Q1	detect th	the issue one Multicolly to fix the p		CO4					
Q2	Interpre	t the follow ese results in	15 Marks	CO4					
	Source	ss	df	MS		Number of obs	= 20 = 209.31		
	Model Residual	5649.47979 143.950985	3 1883 16 8.99	693654		Prob > F R-squared Adj R-squared	= 0.0000 = 0.9752		
	Total	5793.43077	19 304.	917409		Root MSE	= 2.9995		
	У	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]		
	x1 x2 x3 _cons	.9286648 -2.337473 2.018029 25.7459	.1175349 .0941676 1.416239 2.067968	7.90 -24.82 1.42 12.45	0.000 0.000 0.173 0.000	.6795019 -2.537099 9842643 21.362	1.177828 -2.137846 5.020323 30.12979		
	_	the auto co dial measure							