SARASWATHI NARAYANAN COLLEGE, MADURAI – 22

(Autonomous Institution Affiliated to Madurai Kamaraj University) Reaccredited with 'B' grade by NAAC

Subject Title: Econometrics Sub. Code LPSTCT43

Max. Marks: 75

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term (U)

K1	6	is the first stage in an econometric study.
K1	7	Given regression co-efficient b = 2 and standard error of 0.5, the value of t ratio is
K1	8	The range of autocorrelation is
K1	9	The variance of errors is not constant then the regression model has
K1	10	The Two stage least square method was developed by and
		SECTION – B (5 x 2=10)
		Answer all questions.
K2	11	Define Econometrics.
K2	12	State the properties of the ordinary least square estimates of simple linear regression.
К3	13	Define Autocorrelation.
17.4	1.4	State any two reasons for the problem of heteroscedasticity in least square
K4	14	model.
K5	15	What is a simultaneous equation model?
		SECTION – C (5 x 5=25)
		Answer all questions by choosing either (a) or (b)
K1	16	a. State any two limitations of econometrics.
Kı	10	Or b. Discuss the types of data.
		a. What is the simple linear regression? Illustrate with an example.
K2	17	Or
		b. Derive the coefficient when the intercept is zero.
K3	18	a. Distinguish between Autocorrelation and correlation. Or
		b. What are the effects of autocorrelation on OLS estimates?
****	4.0	a. Show that OLS estimators do not have minimum variance if heteroscedastic is presents.
K2	19	Or
		b. What is perfect multicollinearity, state the effect of it.
K4	20	a. Define endogenous, exogenous and pre-determined variables. Or
		b. State the advantages of 2 SLS over the ILS.
		SECTION – D $(3 \times 10 = 30)$
		Answer any three questions.
K1	21	Describe the methodology of Econometric research.
K2	22	What is a disturbance term? And why it should be included in the

		regression model.
K3	23	Explain Durbin Watson's "d" statistics method.
K4	24	Discuss the causes and consequences of multicollinearity.
K5	25	Consider the following simple Keynesian model $C_t = \alpha + \beta Y_t + u_i and Y_t = C_t + I_t$ Where, C_t , Y_t and I_t are consumption, income and investment respectively. Obtain the $\hat{\beta}$ using Indirect Least Square method.