CHUKA



UNIVERSITY

[8 Marks]

[4 Marks]

UNIVERSITY SUPPLEMENTARY/SPECIAL EXAMINATIONS.

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT & AGRICULTURAL ECONOMICS.

AGEC 313: ECONOMETRICS

STREAMS:					TIME	TIME: 2 HOURS		
DAY/DATE: THURSDAY 26/07/2018						8.30 A.N	1 - 10.30 A.M	
	CTIONS: nswer QUES	FION ONE	and any oth	er TWO Q	uestions.			
(i) D (ii) K (iii)	splain how the istributed lag i oyck's lag mo Almon la arks]	nodels.	x model wor	·ks.			[5 Marks] [5 Marks] [5	
(b) Consi	der the follow	ing data obta	ined from Co	ompany W				
W	2	4	5	3	8	6		
V	20	25	42	20	60	50		

W	2	4	5	3	8	6
Y	20	35	42	30	60	50

(i) Regress X on Y and test the significance of B_o and B₁.
(ii) Compute the coefficient of determination. (R²)

(c) Explain the remedies to autocorrelation problem. [3 Marks]

QUESTION TWO

2. (a) The output of company A depends on the two types of inputs 1 and input 2 as shown below;

Output	Input 1	Input 2
40	10	12
60	20	21
64	20	22

80	25	30
72	18	25
50	17	10
68	21	20
90	28	30

Required:

[6 Marks] [4 Marks] [4 Marks] [1 Mark]
[8 Marks]
[5 Marks] [3 Marks]
[8 Marks]
[4 Marks]
[8 Marks]

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