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NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF SOCIAL SCIENCES DEPARTMENT OF ECONOMICS 2017_2 EXAMINATION JANUARY/FEBRUARY 2018

COURSE TITLE: APPLIED ECONOMETRICS II COURSE CODE: ECO 453 UNITS: 2 TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER ANY THREE (3) QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS

QUESTION 1

(a)	What do ye	ou understand	by the phrase	e "econometric	research"?.	7 marks
· · /	2		J 1			

(b) Discuss the properties of a good econometric model 16 marks

QUESTION 2

(a) Given the following data on the demand of commodity (Yam) and the given prices.

NO	1	2	3	4	5	6	7	8
Yam (Yi)	64	68	44	48	50	65	45	52
Price (Xi)	8	10	6	9	6	10	7	8

Find the demand function of β_0 and β_1 13 marks

(a) Explain the Stochastic Process 10 marks

QUESTION 3

- (a) What is nonlinear regression? 5 marks
- (b) List and explain examples of nonlinear regression models 18 marks

QUESTION 4

(a) Discuss the importance of panel data 15 marks

(b) Distinguish between fixed and random effect 8 marks

QUESTION 5

(a) State the criteria can be used to select the optimum lag of the above ARDL modeling: **6 marks**

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macroeconomic variables using two stage least squares. Use the knowledge of Applied Econometrics to interpret the result and the economics implication of the result. **17 marks**

Dependent Variable: Y Method: Two-Stage Least Squares Date: 11/15/17 Time: 02:44 Sample: 1 31 Included observations: 31 Instrument specification: Y C GC I

Variable	Coefficient	Std. Error	t-Statistic	Prob.
С	10.27119	0.059970	171.2734	0.0000
GC	-0.082685	0.027774	-2.977069	0.0059
Ι	0.172839	0.031999	5.401455	0.0000
R-squared	0.829625	Mean dependent var		10.92919
Adjusted R-squared	0.817455	S.D. dependent var		0.154102
S.E. of regression	0.065840	Sum squared resid		0.121379
F-statistic	68.17144	Durbin-Watson stat		0.762855
Prob(F-statistic)	0.000000	Second-Stage SSR		0.121379
J-statistic	28.00000	Instrument rank		4
Prob(J-statistic)	0.000000			

Best Wishes!