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## NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF SOCIAL SCIENCES DEPARTMENT OF ECONOMICS 2022\_2 EXAMINATION

#### COURSE TITLE: APPLIED ECONOMETRICS I COURSE CODE: ECO 453 UNITS: 2 TIME ALLOWED: 2 HOURS INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS

### **QUESTION ONE**

(a)	Explain the Stages	of Applied Econometric Rese	arch (10marks)
(u).	Explain the Stages	of Applied Leonometric Rese	

(b). Given the following multiple regression model below: GDP = -4.188432 + 0.877231INF - 0.417598EXR + 7.744215INT

and t calculated for INF = 1.999216, EXR = 2.217642 and INT = 1.783294

where GDP= Gross Domestic Product (Proxy for Economic growth), INF= Inflationary rate,

EXR= Exchange rate, INT= Interest rate.

You are required to:

(i) Interpret the results above. (12marks)

(ii) Test for the level of significance of t statistics at 5% level of significance. (8marks)

#### **QUESTION TWO**

(a). Briefly explain the History of Time Series Data Analysis.	(5marks)
(b). Explain the need to carry out unit root test on times series data.	(10marks)
(c). Explain the need for the use of nonlinear models?	(5marks)

#### **QUESTION THREE**

(a). What is the 'Jarque-Bera' test ?	(5marks)
(b). In what situation is the use of co-integration analysis appropriate in econor	netrics?
	(7marks)
(c). What are trend-stationary variables.	(8marks)

#### **QUESTION FOUR**

(a). Differentiate between Engle Granger two-step co-integration method and Joha	ansen test
co-integration.	(10marks)
(b). Explain with examples the term 'error correction model'	(10marks)

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