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# NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF SOCIAL SCIENCES DEPARTMENT OF ECONOMICS 2023\_1 POP EXAMINATION...

### COURSE TITLE: INTRODUCTION TO ECONOMETRICS II COURSE CODE: ECO 356 UNITS: 3 TIME ALLOWED: 3 HOURS INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS

## **QUESTION ONE**

(a). What are the property of a good estimator (5 Marks)

(b). Given the following multiple regression model below:

GDP = -1.8774 - 0.5542INF - 0.6114EXR + 0.4438INT

and t calculated for INF = 1.882, EXR = 1.944 and INT = 1.633

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 result above completely. (10marks)
- (ii) Test for the level of significance of t statistics at 5% level of significance (1.96) for:
  - (a) Inflationary rate (5marks)
  - (b) Exchange rate (5marks)
  - (c) Interest rate (5marks)

#### (30Marks)

## **QUESTION TWO**

(a). Briefly explain how you can detect multicollinearity in a regression model (10 marks)
(b). Explain the reason why is heteroscedasticity regarded as a problem. (10 marks)
(20marks)

## **QUESTION THREE**

(a). Explain in detail the term Durbin-Watson Test. (10 marks)
(b). Discuss the term 'Dummy variable'. (10 marks)
(20Marks)

## **QUESTION FOUR**

(a). List and explain five (5) differences between Multiple and Simple regression. (10marks)
(b). In a regression model, that are disturbance term. Briefly discuss the Causes of the Existence of the Disturbance Term in a regression model? (10marks)
(20Marks)