

NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF SOCIAL SCIENCES DEPARTMENT OF ECONOMICS 2024_2 EXAMINATION

COURSE TITLE: APPLIED ECONOMETRICS II

COURSE CODE: ECO 454 CREDIT UNITS: 2 UNITS TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER ANY THREE (3) QUESTIONS

QUESTION ONE

1a. Distinguish between a model and economic model (**3.5 Marks**)

1b. Given the table below calculates the $(\hat{\alpha})$ and $\hat{\beta}$ where X is income and Y is consumption and interpret your result.

X	10	25	30	40	45
Y	30	35	55	65	70

(20 Marks)

QUESTION TWO

2a Define stationary time seirs according to Woodridge (2009) (5.5 Marks)

2bi Discuss the following concepts of forecasting and trend (i) Seasonal trends (ii) Combined linear and seasonal trends (8 Marks)

2bii Discuss the four Types of trends (10 Marks)

QUESTION THREE

3a Discuss the steps should be followed when performing Rank Condition (10 Marks)

3b Discuss the four Properties of Two Stage Least Square (13.5 Marks)

QUESTION FOUR

4a State the three Prosperities of the Instrumental Variable (8.5 Marks)

4b State the Estimation Procedure of full information likelihood method (15 Marks)