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

**COURSE TITLE: INTRODUCTION TO ECONOMETRICS** 

**COURSE CODE: ECO 355** 

**UNITS: 3** 

**TIME ALLOWED: 3 HOURS** 

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS

1a. Define Econometrics

2.5 marks

3

- b. State four (4) reasons why econometrics is studied as a separate discipline **8** marks
- c. List the traditional econometrics methodology in chronological order **7** marks
- 2a. What are the two broad categories of econometrics?
- b. Differentiate between econometric modeling and machine learning
  4 marks
- c. Define modern econometrics 4 marks
- d. Define financial econometrics 4 marks
- e. What is event study? 2.5 marks
- 3a. Examine the classical linear regression model 4 marks
- b. List the factors that can disturb the estimation of classical linear regression model

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What is arbitrage price theory? c.

3.5 marks

- List and explain the eight assumptions of classical linear regression model 4a. 16 marks
- Explain the coefficient of determination b.

1.5 marks

List and explain the properties of OLS 5a.

8 marks

- Given  $Y_t = 15.94 + 0.25X_t$ , interpret accordingly if  $Y_t$  is the income level of b. an individual and  $X_t$  is the monthly consumption expenditure. 4.5 marks
- Interpret the  $r^2$  value of 0.76 for the equation  $Y_t = 15.94 + 0.25X_t$ 5 c. mark
- Give 5 reasons why the normality assumptions are employed? **10** 6a. marks
- Define hypothesis testing b.

4 marks

Differentiate between null and alternative hypothesis c.

3.5 marks