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NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF SOCIAL SCIENCES DEPARTMENT OF ECONOMICS 2017 2 EXAMINATION JANUARY/FEBRUARY 2018

COURSE TITLE: ADVANCED MICROECONOMICS

COURSE CODE: ECO 431

UNITS: 2

TIME ALLOWED: 2 HOURS

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

EQUAL MARKS

1a. Differentiate between the following:

- i. Microeconomics and macroeconomics 3 marks
- ii. Positive and normative economics 3 marks
- iii. Nominal and real prices. 3 marks

bi. Given the demand and supply functions: $Qd_x = 25-10P$ and $Qs_x = -5+3P$. determine the equilibrium price and quantity. **7 marks**

ii. $Qd_x = 41-1.5P_x + 0.5P_x$, $Qs_x = -2.5+7.5P_x$, $Qd_y = 46+P_x - 2P_y$ and $Qs_y = -3+16P_y$. determine the equilibrium prices and quantities. **7 marks**

2a. Assuming an increase in price from #10 to #15 led to a decrease in quantity demanded from 20 to 12units. Calculate: i. the elasticity of demand and interpret the result

8 marks

ii. the price elasticity of demand.

8 marks

b. If $P_1 = 5$, $P_2 = 7$, $Q_1 = 4$ and $Q_2 = 2$. Using the values given, calculate the Arc elasticity of demand **7 marks**

3. Explain the meaning of the following:

i. Production function 4 marks

ii. Total product 4 marks

iii. Marginal product 4 marks

iv. Stages of production 7 marks

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- v. Diminishing returns 4 marks
- 4. Minimize the cost function $C = P_1X_1 + P_2X_2$ subject to the production function $Q = f(X_1, X_2)$. 23 marks
- 5a. Differentiate between the different types of price discrimination 11 marks
- b. Consider an Oligopoly market with two firms A and B, facing the demand function: P=300-0.5Q, suppose their cost functions are respectively C_A =4000+20Q_A+0.2Q_A² and C_B =3000+15Q_B+0.25Q_B. Derive the reaction functions of the firm and the profit maximizing equilibrium under Cournot Model. 12 marks