OLABISI ONABANJO UNIVERSITY, AGO-IWOYE FACULTY OF MANAGEMENT SCIENCES DEPARTMENT OF ECONOMICS 2007/2008 HARMATTAN SEMESTER EXAMINATION COURSE TITLE: INTERMEDIATE MICROECONOMICS INSTRUCTION:- ANSWER QUESTION I AND ANY OTHER TWO QUESTIONS.

1. Establish whether each of the following statements is true, false or ambiguous with explanation TIME ALLOWED: - 2 HOURS not exceeding 5 lines of your answer booklet or graphical/mathematical illustration(s).

(a) A price discriminating monopolist maximizes profit when his output is

produced at a point where MC1 - MC2 = MR. F, mc = mR, - mR. (b) When the elasticity of substitution coefficient langes between zero and one,

it implies that a change in input price ratio causes a more proportionate change it input ratio

C For a homogeneous production function, the capital-labour ratio and the MRTS of the input constant along any of the isoclines.

(d) When average cost is rising, the marginal cost is less than the average cost. +

(e) Both the substitution and income effects are negative for a normal good. True

(f) For a perfect competition, when marginal cost is less than marginal cost in less than marginal cost is less than marginal cos reduce its output in order to maximize its profit. T

(g) For a consumer to satisfactorily maximize his utility, his indifferent should be convex to the

(h) At the minimum point of the average, variable cost cury organal cost is always less than average variable cost/

(i) The output expansion path is the local of sugment of ven ancessaive product is mantion a and the iso-revenue lines when product prices are held constant.

(j) The demand function for a commodity usually has an inverse relationship with in some and direct relationship with price. 4

2. a. Given the utility function: U= q1q=q1/syhere q1 and q2 are consumer goods with prices, v P, and P2 are prices of q1 and q2 and given X N30 & N60 respectively, if the consumer has a t of N18,000 to spend on these commodified determine the quantities of que that maximize utility.

b. State the properties of in therence curves.

3. Using the Cobb-Douglas production function, Y = ALBK 1-8 Derive: (a) MP. (b) AP (c) MRTS

(d) the input expansion with equation.

(e) Is the function homogenous?

4. The cost function of a firm is expressed as C = 75-22.5q+5.5q2, if the market demand function = 120-1.8q

(a) Find the equilibrium output, price and the profit at this price if the firm is a perfect compa

(b) Will the output and price change if the firm were to be a monopolist?