# ECON 212

CHUKA



# UNIVERSITY

# UNIVERSITY EXAMINATIONS

EXAMINATIONS FOR THE AWARD OF DEGREE OF BACHELOR OF

## **ECON 212: INTERMEDIATE MICROECONOMICS**

**STREAMS:** 

TIME: 2 HOURS

[5 marks]

11.30 A.M. – 1.30 P.M.

DAY/DATE: WEDNESDAY 08/8/2018

**INSTRUCTIONS:** Answer question ONE and any other TWO questions

#### **QUESTION ONE**

- (a) Define the following terms
  - (i) Budget constraint
  - (ii) Neutral goods
  - (iii) Substitution effect
  - (iv) Budget line
  - (v) Microeconomics
- (b) With help of diagrams discuss different shapes of indifference curves [5 marks]
- (c) Given the utility function  $U = X_1 X_2$  and the budget constraint of the consumer is

 $P_1 X_2 + P_2 X_2 \le m$ 

- (i) Define the problem of the consumer [1 mark]
- (ii) Find the Marshallian demand functions [6 marks]
- (iii) Determine the maximum utility of the consumer [3 marks]
- (d) Suppose the price of good x is ksh 2 and that of good y is ksh 5. If the price of good X increases to ksh 3 with the price of good Y remaining constant and the consumer income also remaining constant at ksh 120 per day. Calculate the consumer total effect,

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substitution effect and the income effect after the price change given the consumer

demand function for good X to be;

$$X = 2P_y + \frac{M}{10P_x}$$
[10 marks]

# **QUESTION TWO**

(a) Compare and contrast Monopolistic market and oligopoly markets [10 marks]

(b) Given that the market demand  $P=200-0.8 q \wedge the cost function is C_1=10 q_1^2, C_2=80 q_2$ 

. Find the equilibrium price and output [10 marks]

## **QUESTION THREE**

(a) Given the cobb-Douglas production function

 $Q = L^2 K^3$ , calculate the following:

(i)	Marginal product of factors	[2 marks]
(ii)	Marginal rate of technical substitution	[2 marks]
(iii)	Degree of homogeneity and comment on returns to scale	[5 marks]
(iv)	Elasticity of substitution	

(b) With the aid of a diagram explain the substitution and income effect of a price increase in a case of normal good [10 marks]

## **QUESTION FOUR**

(a)	Given the production function $Q = L^{\frac{1}{2}}K^{\frac{1}{2}}$ , compute the conditional demand	$Q = L^{\frac{1}{2}}K^{\frac{1}{2}}$ , compute the conditional demand functions	
	hence the minimum cost	[10 marks]	
(b)	List the assumptions of ordinal utility approach	[5 marks]	
(c)	Why do you think cartels in practice rarely achieve joint profit maximization	[5 marks]	

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