KABARAK



UNIVERSITY EXAMINATIONS

FIRST SEMESTER, 2016/2017 ACADEMIC YEAR

EXAMINATION FOR THE DEGREE OF BACHELOR OF COMMERCE

ECON 110: INTRODUCTION TO MICROECONOMICS

STREAM: Y1S1

TIME: 9.00-11.00 A.M

(30 marks)

EXAMINATION SESSION: DECEMBER

INSTRUCTIONS

- 1. Answer question one
- 2. Attempt and other two questions

QUESTION ONE

- a) Clearly distinguish between each of the following pairs of concepts:
 - i) Marginal cost and opportunity cost.
 ii) Budget line and isocost line.
 iii) Change in quantity demanded and change in demand.
 iv) Returns to scale and economies of scale.
 v) Price floor and price ceiling.
 (2 marks)
 (2 marks)
 (2 marks)

DATE: 5/12/ 2016

Q = -600 + 10P

b) Suppose that the general demand and supply functions are:

 $Q = 60 - 2P + 0.01M + 7P_R$

Where: Q is Quantity;

P is Price;

M is average consumer income which is Shs. 40,000;

 P_R is price of a related good which is Shs. 20.

Identify which is the demand function and which is the supply function. Explain your answer. i)

ii) Compute the equilibrium price and quantity. (4 marks)

iii) From (i) above, compute and interpret the price elasticity of demand at equilibrium.

(3 marks)

(2 marks)

c) The following table represents a simple, hypothetical economy that is producing rice and chicken.

Type of product	Production alternatives				
	А	В	С	D	Е
Rice	0	1	2	3	4
Chicken	10	9	7	4	0

- i) Explain what the point along the PPF implies. (2 marks)
- ii) What does a point inside the PPF mean?
- iii) Suppose the firm is producing at point B, what is the opportunity cost if the firm decides to (2 marks) move from point B to point C?
- d) The following table shows a total utility schedule for a consumer of chocolate bars

(2 marks)

Number consumed	Total utility
0	0
1	10
2	25
3	45
4	60
5	70
6	70
7	65

At what point does the consumer experience diminishing marginal utility? (5 marks)

QUESTION TWO

a)	Given a cost function $TC = 2500 + 2Q^3$				
	i) Explain the variables in the above function	(2 marks)			
	ii) Calculate average cost and marginal cost	(6 marks)			
b)	b) Given that $\pi = TR - TC$				
	Where: π = Profit, TR = Total revenue and TC = Total cost. Further, you are given that both				
	TR and TC are dependent on output (that is, TR = $f(Q)$ and TC= $f(Q)$				
	i) Show the two conditions for profit maximization	(2marks)			
	ii) Assuming a perfectly competitive market, use diagrams to show a profit-	making and loss-			
	incurring firm in the short run	(6 marks)			
c)	Discuss the importance of marginal cost in economics	(4 marks)			

OUESTION THREE

a)	Use indifference curves to show	v the equilibrium condition	. (10 marks)
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QUESTION FOUR

- a) Define oligopoly.
- b) The government of Kenya came up with a new policy in which Safaricom must give a 90-day notice before adjusting phone call prices. Suppose Safaricom decides to enter into a collusive agreement with Airtel, use diagrams to show their profit-maximizing price and output.
- c) Explain the shape of the long-run average total cost curve.

QUESTION FIVE

Compare and contrast a perfectly competitive industry with a monopolistically competitive industry (Note: use appropriate diagrams). (20 marks)

b) i) Distinguish between a normal good and an inferior good.

iii) A consumer has a fixed income and two commodities (X and Y). Assuming that the price of commodity X changes, while the price of commodity Y is kept constant. Use appropriate diagram to show the price-consumption curve for a normal good

(8 marks)

(2 marks)

(10 marks) (8 marks)

(2 marks)