



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

SECOND YEAR FIRST SEMESTER

SPECIAL/SUPPLEMENTARY EXAM

FOR THE DEGREE OF BACHELOR OF COMMERCE

COURSE CODE: ECO201/ECO211/ECO310

COURSE TITLE: INTERMEDIATE MICROECONOMICS

DATE:

20TH JULY, 2022

TIME: 11.00AM - 1.00PM

INSTRUCTIONS TO CANDIDATES

1. Answer Question One in Section A and Any other TWO (2) Questions in Section B

2.Question **one** carries **30**marks and each of the other two questions carry **20** marks each.

TIME: 2 Hours

KIBU observes ZERO tolerance to examination cheating

This Paper Consists of 5 Printed Pages. Please Turn Over.

QUESTION ONE (30 MARKS)

a) Highlight four assumptions about consumer preferences

(8 Marks)

b) Suppose that the industry demand curve is linear, X(p)=a-bp, and the industry curve is Y(p,m)=mp/2. Determine;

Where; X is the output, a is the constant b is the coefficient P is the price, Y is the income

- i)Determine the equilibrium price (4 Marks)
- ii) How does the equilibrium price change as m changes? (4 Marks)
- c) Perfectly competitive firm is faced with the following cost schedule:

Q	1	1	2	3	4	5	6	7	8	9	10
TC	9	20	30	39	47	54	60	67	77	90	109

- i) Determine the quantity of the output the firm has to produce in order to maximize profit if the market price is Ksh 13. (6 Marks)
- ii) What is the maximum profit?

(4 Marks)

iii) Suppose the market price falls to ksh 6. How much will the firm choose to produce now and what will be the profit? (4 Marks)

QUESTION TWO (20 MARKS)

- a) What assumptions should one take into account in trying to solve a duopolist problem assuming that there is no mutual benefit between the duoplist and the rival (8 Marks)
- b) Suppose that the industry demand is given as P=100 –Q where P is the Price and Qis the quantity. Qis the sum output of firm A and B so Q=A+B
- i) Assuming that A and B are Cournot-Nash duopolists, derive algebraically the reactions curves of A and B and the logic behind your equation. (8 Marks)

ii) Determine the optimal output for A for any choice of B in maximizing its total revenue. (4 Marks)

QUESTION THREE(20 MARKS)

a) Given two isolated markets supplied by a single monopolist with the following demand functions

 $P_1 = 12 - Q_1$

 $P_2 = 20 - 3Q_2$

Suppose the firms' total cost function is

 $C = 3 + 2(Q_{1} + Q_{2})$

- i) What will prices, sales and marginal revenue be in the two markets. (8mks)
- ii) Determine the maximum profit for this firm (4mks)
- b) Citing examples, explain the economies of scale that are enjoyed by large scale producers (8mks)

QUESTION FOUR(20 MARKS)

a) Discuss the characteristics of a monopolistic competitive market. Using a graphical illustration, show how equilibrium position is determined under this market structure.

(10 Marks)

b) Using graphical approach, explain the stages of production of a firm and distinguish between the average product and marginal product of the production function

(10 Marks)