



**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2021 / 2022 ACADEMIC YEAR**

**FIRST YEAR SECOND SEMESTER EXAMINATIONS
FOR THE MASTERS DEGREE
IN
BUSINESS ADMINISTRATION**

MAIN EXAMS

COURSE CODE: MBA 810

COURSE TITLE: MANAGERIAL ECONOMICS

DATE: Thursday, 28-04-2022 TIME: 9:00 -12:00

INSTRUCTIONS TO CANDIDATES

ATTEMPT QUESTION ONE AND ANY OTHER THREE QUESTIONS

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

QUESTION ONE [40 MARKS]

- a) Explain the following terms (12 Marks)
- i. Dorminant strategy
 - ii. Nash equilibrium
 - iii. Mixed strategy
 - iv. Most favoured customer clause
- b) Discuss the factors affecting the demand of a product in a given market (6 Marks).
- c) Explain elasticity and its application [8mks]
- d) Explain reasons for capital budgeting [6 mks.]
- e) Suppose that the equation for monopolist is given by
 $TC = 500 + 20Q^2$
Let the demand equation be given by
 $P = 400 - 20Q$
- f) Find the profit-maximizing price and output of a monopolist [8 Marks]

QUESTION TWO

- a) Briefly explain the various steps involved in estimating demand by regression analysis [5 Marks]
- b) Clearly distinguish between consumer clinic and market experiments [5 marks]
- c) The data below shows a tabulation on the production of a hypothetical product

Output (Q)	0	1	2	3	4	5	6	7	8
Total cost	25	32	38	42	48	58	67	78	98

Using the above data, determine

- i. Total fixed cost [3 marks]
- ii. Average variable cost when output equals 6 units [4 marks]
- iii. Marginal cost of the 3rd unit of output [3 marks]

QUESTION THREE (20 MARKS)

Suppose a firm has a cost function that depends on the levels of output of commodities X and W as follows:

$$C=4X^2+10W^2$$

The production manager wants to determine the quantities of each commodity that should be produced to minimize cost if the total output of X and W must equal to 800 units thus the cost must be minimized subject to the constraint.

- i. Find the first order condition (8mks)
- ii. Check the second order condition. (7mks)
- iii. What is the optimal cost. (5mks)

QUESTION FOUR (20 MARKS)

- a. Discuss pricing strategies used by firms (10 Marks)
- b. Explain two main periods of production (10 Marks).

QUESTION FIVE (20 MARKS)

Explain the difference between price elasticity and income elasticity of demand and highlight their importance in managerial economics [8 Marks]

Consider the following production function $Q=56K^{0.25} L^{0.75}$

- i) Find the elasticity of production with respect to labour input [5 Marks]
- ii) Establish the nature of returns to scale [3 Marks]
- iii) Given the cost of labour is \$20 per hour and the cost of capital is \$10 per machine hour .The firm has \$500 to spend .Determine the least cost combination of inputs

[4 Marks]

