

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF MASTER OF BUSINESS ADMINISTRATION
MBAD 802: MANAGERIAL ECONOMICS**

STREAMS: MBAD ODEL

TIME: 2 HOURS

DAY/DATE: MONDAY 11/08/2025

2.30P.M. –4.30 P.M

INSTRUCTIONS: Answer ONE Questions and any other THREE QUESTIONS

QUESTION ONE

- a) Define the following terms:
 - i. Economics (2 marks)
 - ii. Managerial Economics (2 marks)
- b) What is Break-even point? Explain the important managerial uses of break-even analysis? (10 Marks)
- c) Distinguish between economies of scale and diseconomies of scale. Explain the factors that cause economies of scale (10 Marks)
- d) Suppose a firm's estimated demand curve has the following equations; $Q = 220 - P$ and its $TC = 1000 + 80Q - 3Q^2 + \frac{1}{3}Q^3$. Determine:
 - (i) An expression for the firm's total revenue function (2 Mark)
 - (ii) The output level and price that will maximize profit (or minimize short run loss) for the firm. (2 Marks)
 - (iii) The firm's economic profits or loss at the optimum point (2 Marks)
- e) Discuss at least 5 factors that affect the demand and supply of a commodity (10 Marks)

QUESTION TWO

- a) Explain the nature and scope of managerial economics (2 Marks)
- b) The market supply and demand curves for a product are given by:
 $Q_S = 900 + 200P$; $Q_D = 3000 - 500P$

The industry supplying the product is perfectly competitive. An individual firm has fixed cost of KSh.150 per period. Its marginal and average variable cost functions are:

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$$MC = 15 - 4Q + \frac{3Q^2}{10} \text{ And } AVC = 15 - 2Q + \frac{Q^2}{10}$$

Determine:

- (i) The profit-maximizing rate of output for the firm (5 Marks)
- (ii) The maximum total profit for the firm (5 Marks)
- c) State and briefly discuss any FOUR principles in managerial economics (8 Marks)

QUESTION THREE

- a) The treasurer of Makueni Fruits Processing Limited has projected the cash flows of 4 projects (A, B, C & D) as shown in the table below:

Year	Project A	Project B	Project C	Project D
Rate of Return (%)	12	6	7.5	15
0	-100,000	-200,000	-150,000	-500,000
1	35,000	47,000	40,000	135,800
2	24,000	38,500	55,000	125,000
3	16,000	29,000	10,500	200,500
4	18,000	42,000	66,500	105,000
5	25,000	48,000	22,500	34,700

- i. Based on the payback period, which project should be adopted? (2 Marks)
 - ii. Compute NPV for each of the 4 projects and comment on which project should be adopted (10 Marks)
 - iii. Suppose that the four projects are independent. Which project should be adopted based on the internal rate of return rule? (2 Marks)
- b) What are the main factors to consider before making any investment? (6 Marks)

QUESTION FOUR

- a) A firm's total cost function is given by $TC = 250 + 550Q - 300Q^2 + 50Q^3$ where Q is the number of units produced. Suppose that the firm produces 10 units, determine:
- (i) Total Fixed Cost (2 Marks)
 - (ii) Total Variable Cost (2 Marks)
 - (iii) Average total cost (2 Marks)
 - (iv) Average Variable Cost (2 Marks)
 - (v) Marginal Cost (2 Marks)
- b) Explain 5 main reasons monopoly continues to thrive (10 marks)

QUESTION FIVE

- a) Discuss the 5 factors that affect the demand and supply of a commodity (10 Marks)
 - b) Explain the term price discrimination and under conditions are necessary for price discrimination? (5 Marks)
 - c) Discuss 5 factors that cause a rightward shift of the supply curve (5 marks)
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