



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR
SECONDYEAR FIRSTSEMESTER**

**SCHOOL OF BUSINESS & ECONOMICS
MASTER OF BUSINESS ADMINISTRATION**

COURSE CODE: MBA 8211

COURSE TITLE:MANAGERIAL ECONOMICS

DATE: DECEMBER, 2023

TIME:

INSTRUCTIONS TO CANDIDATES

1. Answer ANY FOUR Question.

QUESTION ONE

- (a) What is meant by demand forecasting? Why is it important for the managers of business firm? **3 marks**
- (b) The demand function of a product is given as $Q = 500 - 5P$. Find out the point price elasticity demand when $P = 15$ and $Q = 200$; and $P = 50$ and $Q = 200$.
3 marks
- (c) What inferences you draw from the results (b) when the price of a commodity increases from 15 to 50, the quantity demanded remaining constant. **2 marks**
- (d) In the table below, estimate the sales for 2012, 2015 and fit a linear regression equation and draw a trend line. **7 marks**

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Sales	22734	24731	31489	44685	55319	91021	146234	107887	127483	97275

QUESTION TWO

- (a) Discuss the areas of decision making where managerial economics prescribes specific solutions to business problems. **9 marks**

A company manufactures a single product which has the following cost structure based on a production budget of 10,000 units.

Materials – 4 kg at Shs.3/kg Shs.12

Direct labor – 5 hours at Shs.7/hour Shs.35

Variable production overheads are recovered at the rate of Rs.8 per direct labor hour.

Other costs incurred by the company are:

Factory fixed overheads Shs120, 000

Selling and distribution overheads Shs160, 000

Fixed administration overheads Shs80, 000

The selling and distribution overheads include a variable element due to a distribution cost of Shs2 per unit.

The fixed selling price of the unit is Shs129.

Required:

- (b) Calculate how many units have to be sold for the company to break-even. **3 marks**
- (c) Calculate the sales revenue which would give a net profit of Shs40,000. **3 marks**

QUESTION THREE

- (a) A firm has the following revenue and cost functions: $TR = 45Q - 0.5Q^2$ and $TC = Q^3 - 8Q^2 + 57Q + 2$. Determine Q that maximizes profit (π). **4 marks**
- (b) Suppose the profit function and the cost outlay is given as follows: $\pi = 80X - 2X^2 - XY - 3Y^2 + 100Y$ and $X + Y = 12$ respectively. Using Lagrangian method, determine optimal X and Y , and interpret the Lagrangian multiplier. **5 marks**
- (c) Discuss the managerial uses of production function. **6 marks**

QUESTION FOUR

- (a) A firm has the production function $X = LK$ (X = output, L = labour, K = capital); labour and capital prices are 8 and 10 per unit; and it desires to produce 32 units of output. What is the least cost combination of labour and capital? **4 marks**
- (b) By suitable illustration, explain the relationship between total product, average product and marginal product. **6 marks**
- (c) Discuss the managerial implications of (b) above. **5 marks**

QUESTION FIVE

- (a) Discuss the managerial importance of understanding total costs, average costs, and marginal costs. **9 marks**

- (b) “Firms may not maximise profit but they do have a profit policy.”
Discuss the above by bringing out clearly the various facets of a profit-policy decision by a firm. **6 marks**

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