

# THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

## A. M. E. C. E. A

#### MAIN EXAMINATION

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### MAY – AUGUST 2019 TRIMESTER

#### FACULTY OF COMMERCE

#### DEPARTMENT OF ACCOUNTING AND FINANCE

#### SPECIAL/SUPPLEMENTARY PROGRAMME

#### **CEC 520: MANAGERIAL ECONOMICS**

Date: JULY 2019	Duration: 3 Hours
INSTRUCTIONS: Answer ALL Questions	

Q1.	a)	Explain, distinguishing clearly between the following terms.	
		i. Historical costs and current costs	(2 marks).
		ii. Returns to scale of a production system and returns to	a factor of
		production	(2 marks).
		iii. Economies of scale and minimum efficient scale	(2 marks).
k	b)	Using suitable illustrations, explain briefly the effects of transport	portation
		costs on the minimum efficient scale	(3 marks).
	c)	Explain briefly the following:	. ,
	,	i. The 'entry and exit conditions' as a factor shaping com	npetitive
		environment	(3 marks).
		ii. The two methods of dealing with effects of uncertainity	in the basic
		valuation model of the firm	(3 marks).
Q2.	a)	Using appropriate illustrations as necessary, explain distinguin	ishing
		between the following terms and statements:	
		i. Utility maximization model and profit maximization mo	del
			(2 marks).
		ii. Supply curve and supply function. Illustrate your answ	er
			(2 marks).
		iii. Substitution effect and income effect of a price change	. Illustrate
		your answer	(2 marks).
		iv. Price consumption curve and income consumption cur	ve. Illustrate
		your answer	(2 marks).

Cuea/ACD/EXM/JULY 2019/Commerce Page 1

- b) Explain briefly three (3) applications of the concept of elasticity of demand (3 marks).
- Consider the following information for Nguvu Company Ltd, a competitive c) profit-maximizing firm employing a single factor input, labour.
- 1.

Labour (L)	TP∟	MP∟	MRP∟
1	5		
2	9		
3	12		
4	14		
5	15		

Where

- $TP_{L}$  = total product of labour
- MP<sub>L</sub> = marginal product of labour
- $MRP_{L}$  = marginal revenue product of labour.
- 2. Price of output Kshs250
- 3. Price of labour Kshs600

Required to:

i.	Complete the table	(1 mark).
ii.	Determine the number of workers to be hired	(2 marks)
iii.	Calculate the total profit	(1 mark).

- Q3. a) Discuss briefly three (3) key models in trend analysis  $(4 \frac{1}{2} \text{ marks})$ b) Distinguish clearly between 'returns to scale of a production system' and 'returns to a factor of production' (3 marks) Discuss briefly three (3) factors for shaping the competitive environment c) (6 marks) Explain briefly the term 'marginal revenue product'  $(1 \frac{1}{2} \text{ marks})$ d)
- Q4. a) Explain briefly the following terms and statements.
  - i. **Optimal decision**

- (2 marks).
- ii. The expected value maximization model is important in determing the optimal course of action (4 marks).
- Consider the following revenue and cost equations for Safari Shoe b) Company
  - TR = Kshs 2400Q Kshs 150Q<sup>2</sup>
  - TC = Kshs 800 + Kshs 400Q + Kshs  $50Q^2$

Required to:

- Find revenue-maximizing output level i. (2 marks). ii. Find the revenue maximized
  - (2 marks).

Cuea/ACD/EXM/JULY 2019/Commerce Page 2

#### (3 marks). (2 marks).

iv. Find the maximized profit

#### Using suitable illustrations, explain briefly the terms Q5. a)

A change in quantity supplied 1.

(2 marks) (2 marks)

2. A change in supply Consider the supply function for automobile industry in a hypothetical b) economy given as follows:

 $Q = 1,000P - 250P_x - 50,000W - 7,500S - 62,000E - 500,000i$ 

Where

Q = number of new domestic automobiles (in millions), supplied during a given period

P = average price (\$) of new domestic automobiles

 $P_x$  = average price (\$) of new imported automobiles

W = average hourly price of labour (\$) per hour

- S = average cost of steel per ton (\$)
- E = average price of energy (\$)

i = average interest rate, cost of capital (in %)

The estimated values for the independent variables during the coming year are as follows:

P = \$15.000 $P_{x} = $21,000$ W = \$50 S = \$400 E = \$3 i = 4%

Required to

**1.** Estimate the industry supply for new automobiles in the coming year

(2 marks)

- **2.** Derive the supply curve for automobile industry when (1 mark)
  - i. Q is expressed as a function of P
  - **ii.** P is expressed as a function of Q (1 mark)
- 3. Present (2) above graphically (1 mark)
- c) Using suitable illustration, explain briefly the term 'market equilibrium'

(3 marks)

State the basic assumptions of consumer behaviour theory. (3 marks) d)

#### \*END\*