

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2016/2017

SECOND YEAR FIRST SEMESTER EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURAL ECONOMICS/AGRIBUSINESS MANAGEMENT WITH INFORMATION TECHNOLOGY

MAIN CAMPUS

AEC 204: AGRICULTURAL ECONOMICS

Date: 30th November, 2016

Time: 3.30 - 6.30pm

INSTRUCTIONS:

- Answer ALL Questions in section A and any TWO in section B.
- Carefully read and follow the instructions contained in the answer booklet provided.
- Marks for each question are indicated in brackets against each question.

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SECOND YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF SCIENCE IN AGRIBUSINESS MANAGEMENT WITH INFORMATION TECHNOLOGY

AEC 204: AGRICULTURAL ECONOMICS

INSTRUCTIONS TO CANDIDATES

- Carefully READ AND FOLLOW THE INSTRUCTIONS contained in the answer booklet(s) you have been provided with.
- 2 Answer ALL the Questions in Section A and Any Two Questions in Section B.
- 3. Marks for each question are indicated in brackets against each Question

SECTION A (Compulsory)

- L a. Using indifference curves derive the demand curve for a normal good. (5 mks)
 - b. Write brief notes on the following:
 - i. Searcity and choice

(2.5 mks)

ii. Price elasticity of demand

(2.5 mks)

- c. With the help of a diagram distinguish between the income effect and substitution effect of change in the price of a normal good (8 mks)
- 2. The demand and supply schedule for carrots in Kibuye market are given below. Use the information to answer the questions below:

Price Kshs "000" Per ton	Quantity demanded per (thousands of tons)	Quantity demanded per (thousands of tons)
2	110.0	(diodsailds of tons)
4	90.0	46.0
8	67.5	100.0
10	62.5	115.0
12	60.0	122.5

(I)	Use the graphical method to determine the equilibrium price.	(5 mk)
(ii)	Explain what would happen if the prices were set at Ksh 4,000 an respectively.	*
(iii)		(3 mks)
(ar)	What is the price elasticity of demand when prices change from it. Ksh. 10,000	
(iv)	Interpret the coefficient calculated and explain whether the dema	(2 mks) and at this point
4-7	considered to be elastic or inelastic.	(1 mks)
(v)	State FOUR factors that would affect the supply of beans in Kibs	
	e and a supply of a sum of the latest	(2 mks)
ION B	- ANSWER ANY TWO QUESTIONS	and the second of the second o
		1
	llowing table shows a production relationship between input (X)	and output
	se the information to answer the questions that follow.	
X		
)	0	
	16	
	26	
1	31	
	35	
(38	
	40	
F	42	
	43	
	49	
0	12	
) Cele	ulate MPP & APP at each level of output.	(5 mks)
i) Plot	the TPP, MPP and APP curves. Show the 3 production region	ns. (10 mks
8 8 80 M	fly discuss each region in (ii) above and explain what a ratio	
	ch region	(5 mks)

OUTPUT	TOTAL COST
0	1000
1	1500
2	3500
3	4500
4	6500
5	8500
6	12000

Use the above information to answer the questions below:-

- (i) Compute the Total Fixed Cost and Total Variable Cost at each level of output
 (6 mks)
- (ii) Compute the AFC, AVC and MC at each level of output. (8 mks)
- (iii) What levels of output would maximize profit at prices of 1000 and 3500 respectively. State the principles used to determine these output levels.

(3 mks)

- (iv) Compute the profit generated at the levels of output in (iii) above. (3 mks)
- 5. a) What is oligopoly?

(4 mks)

- b) Using a well-labeled diagram, show that a monopolist can make losses in the short-run
 (8 mks)
- e) Using a well-labeled diagram, explain why prices are "sticky" downward under
 (8 mks)