CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT

AGBM 342: MANAGERIAL ECONOMICS

STREAMS: AGBM Y3S2

TIME: 2 HOURS

8.30 AM – 10.30 AM

DAY/DATE: TUESDAY 09/08/2016

INSTRUCTIONS:

- Answer All Questions in Section A and any Two in Section B
- Answer each Question on separate pages

Section A

SECTION A: ANSWER ALL QUESTIONS (30 MARKS)

1.	(a)	Discu	ss the role of business managers in attainment of a firm's	objectives. [6 marks]
	(b)	Outlir	ne four common objectives of a business firm.	[8 marks]
	(c)	Given (AVC 5,000	that the unit selling price of a commodity is ksh. 100, the c) is estimated to be kshs. 75 and the total fixed cost (TFC ,000. Calculate the break even quantity.	e variable cost b) is estimated to e [4 marks]
	(d)	Suppo $Q = 2$	quations: $-3Q2 + (1/3)Q3$	
		Determine:		
		(i)	An expression for the firm's total revenue function.	[4 marks]
		(ii)	The output level and price that will maximize profit (or loss) for the firm.	minimize short run [4 marks]

(iii) The firm's economic profits or loss at the optimum point. [4 marks]

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

2. (i) A firms total cost function is TC = 12 + 60Q - 15Q2 + Q3 suppose the firm produces 10 units of output.

Determine:

3.

(i)

(a)	Total Fixed Cost (TFC)	[2 marks]
(b)	Total Variable Cost (TVC)	[2 marks]
(c)	Average Total Cost (ATC)	[2 marks]
(d)	Average Variable Cost (AVC)	[2 marks]
(e)	Marginal Cost (MC)	[2 marks]

(ii) Using demand-supply analysis, explain the effects of each of the following on the value of the firm.

(a)	A new advertising campaign increases the sales of the fir	m substantially. [5 marks]
(b)	A new competitor enters the market.	[5 marks]
Write	e short notes on the following	
(a)	Goal of the firm	[2 marks]
(b)	Total product of labour	[2 marks]
(c)	Law of diminishing returns	[2 marks]
(d)	Returns to scale	[2 marks]
(e)	Short run production function	[2 marks]

- (ii) A company is considering the manufacture of two mutually exclusive products, product A and product B. Product A is a watch band and is specifically designed to fit only on the company's watches. Product B is watch band that is designed to be adapted to a variety of watches including these produced by competitors. The expected investment for each product is ksh 10,000. The expected cash flows for project A are shs. 2,000,000 per year for 8 years. The coefficient of variation is expected annual cash flows are 10% for project A is 10% and 15% for B. the cost of capital for project A is 10% and it is 15% for B. If only one of the projects is to be selected, which project should we select? [10 marks]
- 4. Suppose that an industry comprising two firms producing a homogenous product. Suppose that the demand functions for two profit maximizing firms in a duopolistic industry are: Q1 = 50 - 0.5|P1 + 0.25P2 Q2 = 50 - 0.P2 + 0.25P1Suppose, further that the firm's total cost function are TCI = 4Q1 TC2 = 4Q2

Where P1 and P2 represent the prices charged by each firm producing Q1 and Q2 unit of output.

(i)	What is the equilibrium price, profit maximizing output level each firm?	s, and profits for [10 marks]
(ii)	Explain the difference between price elasticity and income elasticity and income elasticity in their importance in managerial economics.	asticity of demand [5 marks]

(iii) Describe the relationship between managerial economics and agribusiness management. [5 marks]
