

University Examinations 2010/2011

FIRST YEAR, SECOND SEMESTER EXAMINATIONS FOR CERTIFICATE IN AGRICULTURE

BUS 161: PRODUCTION AND MARKETING ECONOMICS

DATE: AUGUST 2010

TIME: 1¹/₂ HOURS

INSTRUCTIONS: Answer Question one which is Compulsory and any other two questions

QUESTION ONE – (30 MARKS)

(a) Define production function.	(2 Marks)					
(b) State the characteristics of variable inputs.	(3 Marks)					
(c) Using relevant illustrations differentiate the budget line and the Iso cost curve.						
	(6 Marks)					
(d) Explain the following:						
(i) Technical rate of substitution.						
(ii) Marginal rate of substitution.						
(iii) Diminishing marginal rate of technical substitution.	(6 Marks)					
(e) State the components of a market.						
(f) State the characteristics of a monopoly	(8 Marks)					
(g) State the difference between sales promotion and advertisement.	(2 Marks)					

QUESTION TWO – (15 MARKS)

(a) A farmer observes that to produce 40 litres of milk he can choose alternative ways by combining hay and dairy meal as shown below:

(x ₁) Hay	100	80	60	40	20	0.5
(x ₂) Dairy Meal	0.5	1	4	8	14	40

Required:

(a) On a table graph plot x_2 against x_1 .

(4 Marks)

(b) Supposing that Px1 = 40/=, Px2 = 16/= estimate the least lost combination.

(8 Marks)

(c) Given that the price of milk is Ksh.40/kg. Calculate the optimal profit for the farm. (3 Marks)

QUESTION THREE – (15 MARKS)

(a) Using relevant illustrations explain the least cost combination criteria. (10 Ma	rks)
(b) State the characteristics of perfect competitive market. (5 Mar	ks)

QUESTION FOUR - (15 MARKS)

(a) Using relevant illustrations explain the stages of a production function.	(10 Marks)
(b) Explain the importance of grading agricultural products.	(5 Marks)

QUESTION FIVE - (15 MARKS)

(a) Explain the sources of monopoly power.	(10 Marks)
(b) State the advantages of advertisement.	(5 Marks)