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University Examinations 2013/2014

FIRST YEAR, FIRST SEMESTER EXAMINATIONS FOR DIPLOMA IN AGRICULTURE AND

FIRST YEAR, FIRST SEMESTER EXAMINATIONS FOR CERTIFICATE IN AGRICULTURE

BUS 0161: PRODUCTION ECONOMICS AND AGRICULTURAL MARKETING

DATE: APRIL 2014 TIME: 1 ½ HOURS

INSTRUCTIONS: Answer question **one** and any other **two** questions

QUESTION ONE – (30 MARKS)

(a) Define the following towns as used in a gricultural and tration and application.		
(a) Define the following terms as used in agricultural production and marketing:		
(i)	Long run and short run time periods.	(2 Marks)
(ii)	(ii) Marginal physical production (MPP) and Marginal Rate of Substitution (MRS	
		(2 Marks)
(iii)	Opportunity cost	(1 Mark)
(iv)	Economies of production	(2 Marks)
(v)	Elasticity of production	(2 Marks)
(vi)	Production function	(2 Marks)
(b) State five characteristics of agricultural production. (5 Marks)		(5 Marks)
(c) In preparation for the holiday season, a farm decides to increase its labour input from		
4,000 hours per week to 4,100 hours per week. In return productivity increases from		
8,000 bags to 12,000 bags per year. Calculate the farm's average labour elasticity of		
outpu	t.	(5 Marks)
(d) State five roles played by the government in agricultural marketing. (5 Marks)		

(e) State five reasons why the supply of agricultural products is low in Kenya. (5 Marks)

QUESTION TWO – (15 MARKS)

this statement in relation to key production problems.

Given the following production function $y = 5x + 0.05x^2 - 0.00x^3$ (a) Complete the following table. (7 Marks) Input TPP APP (x) (y) 0 10 20 30 40 50 60 70 80 Where; TPP = Total physical product APP = Average physical product MPP = Marginal physical product (b) Plot TPP against x. (2 Marks) (c) Plot APP and MPP against x below the graph in (b). (4 Marks) (d) Indicate the regions of the production function. (2 Marks) **QUESTION THREE – (15 MARKS)** (a) Explain the 4 P's of marketing. (8 Marks) (b) Explain the factors that determine the supply of agricultural products. (7 Marks) **QUESTION FOUR – (15 MARKS)** Using isoquant and isorevenue curves, explain the least cost combination principle. (15 Marks) **QUESTION FIVE – (15 MARKS)** Consumers are said to be the "king" of the production process. Using relevant examples, discuss

(15 Marks)