

"Investing in Africa's Future" COLLEGE OF HEALTH, AGRICULTURE & NATURAL SCIENCES

AEC 303 PRODUCTION ECONOMICS

END OF SECOND STATES OF EXAMINATIONS

APRIL/MAY 2018

LECTURERS DR L'DUBE

DURATION: 3 HOURS

INSTRUCTIONS

- 1. Do not write your name on the answer sheet.
- 27 Use Answer Sheets Provided =
- 3. Begin your answer for Each Question on a New Page
- 4. Credit is Given for Neat Presentation



PRODUCTION ECONOMICS EXAMINATION: AEC 303

APRIL/MAY 2018

Three hours

INSTRUCTIONS TO CANDIDATES

Answer FOUR questions. All questions carry equal marks.

Question 1

a) What do you understand by the term "agricultural production economics"? [5]
b) Outline five goals of agricultural production economics. [10]
c) Discuss five assumptions relating to agricultural production. [10]

Question 2

a) Define and present the neo-classical production function. [5]
b) With the aid of a diagram explain the three stages of production. [10]
c) Which is the rational stage of operation and why? [10]

Question 3

- a) Define the terms TPP, APP, MPP and elasticity of production. [10]
- b) The following is a hypothetical production function, calculate APP, MPP and elasticity of production. [10]

Land	Variable Input (Labour)	Output (Y)	APP	MPP	Elasticity of product
1	(Labour)				
1	0	0			
1	1	6			
1	2	16			
1	3	24			
1	4	30			

	15	34	
	6	34	
1	1	32	
1	8	26	

c) Identify and state the economic law derived from this production function and state its assumptions [5]

efine the terms fixed costs (FC), variable costs (VC), total costs (TC), average fixed sts (AFC), average variable costs (AVC), average total costs (ATC) and marginal costs (IC).

om the table below, calculate TC, AVC, AFC and MC.

[15]

)	TFC	TVC	TC	AVC	ATC	MC
	100	0				
	100	100				
	100	200				
	100	300				
	100	400				
	100	500				
	100	600				
	100	700				
	100	800				
	100	900				
	100	1000				
				1	1	

ferentiate among the following

Iso-quant and Iso-resource line

Iso-cost and Iso-revenue line.

[10]

cuss with examples the different types of production possibility curves that illustrate relationships among farm enterprises. [15]

Question

a) Do

b) Fr

Output (
0
3.7
13.9
28.8
46.9
66.7
86.4
104.5
119.5
129.6
133.3

Question:

a) Dif

i) ii)

b) Dis