



UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

FIRST SEMESTER EXAMINATION

THIRD YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF

(AGRICULTURAL EDUCATION AND EXTENSION

AEC 305: PRINCIPLES OF RESOURCE USE AND MANAGEMENT

DATE: NOVEMBER 30, 2016

TIME: 8:30-10:30AM

INSTRUCTIONS:

Answer Question ONE and ANY other TWO Questions

QUESTION ONE (30 MARKS)

Briefly describe the following

- | | |
|---|-----------|
| a) Main agroecological zones in Kenya | (2 marks) |
| b) Methods to enhance labor productivity | (2 marks) |
| c) Capital productivity in resource use in Kenya | (2 marks) |
| d) Perfectly inelastic supply of land | (2 marks) |
| e) Intensive agricultural land use methods in Kenya | (2 marks) |
| f) Factors that influence land appreciation | (2 marks) |
| g) Factors that influence land depreciation | (2 marks) |
| h) Good agricultural practices to curtail air pollution | (2 marks) |
| i) Water contamination | (2 marks) |
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j) Given the data below

No of weeding operations	Total physical Product (TPP)	APP	MPP
0	5	-	-
1	20	-	-
2	45	-	-
3	80	-	-
4	100	-	-
5	95	-	-

- k) (i) Derive the data column of APP (4 marks)
(ii) Derive the data column of MPP (4 marks)
(iii) Identity efficient labor use in this response function or labor production function (4 marks)

QUESTION TWO (20 MARKS)

- a) Explain how increasing population affects land use methods in Kenya (10 marks)
b) Describe farming methods to ensure food security in Kenya. (10 marks)

QUESTION THREE (20 MARKS)

- a) Describe four types of land tenure in Kenya (10 marks)
b) Explain the demerits of land tenure system in pastoral areas (10 marks)

QUESTION FOUR (20 MARKS)

- a) Highlight sources of borrowed financial capital for farming in Kenya (10 marks)
b) Explain legal implication for borrowed capital (10 marks)

QUESTION FIVE (20 MARKS)

- a) Define natality rate and mortality rate in human population (4 marks)
b) Explain the threats posed by high population growth in Kenyan's economic development (10 marks)
c) What measures can be used to match population growth with gross domestic production in Kenya (6 marks)

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