



"Investing in Africa's Future"

FACULTY OF AGRICULTURE AND NATURAL RESOURCES

AHC302: VEGETABLE PRODUCTION

END OF FIRST SEMESTER EXAMINATIONS

NOVEMBER/DECEMBER 2016

LECTURER: MR. T. A. MTAITA

DURATION: (3HRS)

INSTRUCTIONS

1. Do Not Write Your Name On The Answer Sheets.
2. Use Answer Sheets Provided.
3. Begin Your Answer For Each Question On A New Page.
4. Credit Is Given For Neat Presentation Of Answers.



Course code: AHC 302
Course title: Vegetable production

Answer four questions only

Question One

Discuss the different patterns of growing vegetable crops in terms of crop combinations and sequences in time and space dimensions in addition to the cultural practices and technologies with which the vegetables are grown.

[25]

Question two

a) What are the advantages and disadvantages of raising vegetables in nurseries?

[5]

b) Identify ten common tools used in nursery and their uses.

[10]

c) With reasons, identify five factors that must be considered when selecting a site for establishment of a vegetable nursery.

[10]

Question three

Explain the cultivation of onions **or** main-crop potatoes under the following headings:

(i) Appropriate sites and land preparation,

[5]

(ii) Seed production,

[5]

(iii) Moisture management,

[5]

(iv) Fertilizer management, and

[5]

(v) Harvesting and expected yield (tons per hectare).

[5]

Question four

Explain in detail the production technology of any cucurbit. **[25]**

Question five

Using onions or potato as an example, present a detailed discussion on how high bulb or tuber quality is attained by following appropriate practices in the growing-to-harvest cycle of the plant. **[25]**

Question six

- a) What are the major strengths of vegetable rotation when there is limited land for production? **[7]**
- b) Explain the procedure of a crop rotation in cases where several vegetable crops are to be grown in a small area of approximately one hectare. **[9]**
- c) With reasons, formulate a crop rotation system over four years for one hectare of land for the cultivation of: tomato, sweet peppers, cauliflower, cabbage, carrots, beetroot, green beans and sweet potatoes. **[9]**