

HORT 111

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE (HORTICULTURE)

HORT 111: PRINCIPLES AND PRACTICES OF HORTICULTURE

STREAMS: BSC (HORT) Y1S1

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 06/12/2017

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

- This paper has two sections A and B
- Answer all questions in section A and any TWO from section B
- Marks for each questions are indicated in parenthesis ()
- Total marks = 70

SECTION A (30 MARKS)

- (a) Describe the main historical development of horticulture that occurred in Egypt and the fertile crescent. [5 marks]
 - (b) Describe the characteristics associated with weed survival in different cropping systems. [5 marks]
2. Explain the effect of wind on growth and development of horticultural crops.[6 marks]
- (a) Differentiate between essential plant nutrients and beneficial plant nutrients. [2 marks]
 - (b) Describe the different methods of liquid fertilizer application. [5 marks]
4. Briefly explain why you would encourage horticultural farmers to adopt asexual propagation. [7 marks]

SECTION B (40 MARKS) – ANSWER ANY TWO QUESTIONS

- (a) Due to financial constraint a farmer opts to purchase NPK instead of DAP fertilizer for vegetable production. Identify the unique nutrient in the fertilizer of choice and exhaustively discuss its role and deficiency symptoms in plants. [10 marks]

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- (b) Discuss the advantages of protected field production of horticultural crops. [10 marks]
6. (a) Explain the procedure of mulch application and maintenance. [10 marks]
- (b) Briefly outline the different types of cropping systems used in horticultural crop production. [10 marks]
7. (a) Giving examples discuss why you would discourage farmers from weeding their crop fields. [10 marks]
- (b) Discuss the effect of temperature on growth and development of horticultural crops. [10 marks]
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