

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF
BACHELOR OF SCIENCE IN HORTICULTURE**

HORT 111: PRINCIPLES AND PRACTICES OF HORTICULTURE

STREAMS: BSC (HORT)

TIME: 2 HOURS

DAY/DATE: TUESDAY 10/12/2019

11.30 AM – 1.30 PM

INSTRUCTIONS:

- **The paper contains section A and B**
- **Answer all questions in Section a and any Two from section B**
- **Marks for each question are indicated in the parenthesis ()**
- **Total marks = 70**

SECTION A (30 MARKS): ANSWER ALL QUESTIONS

1. Outline any six aspects of development in agriculture that occurred during the twentieth century and their influence on the global economy/technology. [6 marks]
2. (a) Describe the contribution of Egyptians in development of Horticulture. [4 marks]
(b) Describe the factors that have contributed to the growth of the Horticulture industry in Kenya. [5 marks]
3. Discuss the effect of temperature on horticultural crop production. [7 marks]
4. Describe the benefits of inorganic fertilizers. [8 marks]

SECTION B: (40 MARKS): ANSWER ANY TWO QUESTIONS

5. (i) Describe the challenges of outdoor or open field farming system. [8 marks]

- (ii) Describe any four plant growth structures and state their advantages in crop production. [12 marks]
6. (i) Discuss the advantages and disadvantages of organic mulches in horticultural crops. [14 marks]
- (ii) Briefly explain the significance of weed management in horticultural crops. [6 marks]
7. (i) Describe the advantages and disadvantages of asexual propagation in perennial crops like coffee. [10 marks]
- (ii) Explain the management of greenhouse environment for quality crop production. [10 marks]
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