

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD DEGREE OF  
BACHELOR SCIENCE IN AGRICULTURAL EXTENSION AND  
EDUCATION/AGRICULTURAL EDUCATION & EXTENSION**

**HORT 111: PRINCIPLES AND PRACTICES OF HORTICULTURE**

**STREAMS: BSC AGED Y1 S2**

**TIME: 2 HOURS**

**DAY/DATE: MONDAY 20/04/2020**

**8.30 A.M - 10.30 A.M.**

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**INSTRUCTIONS:**

- **Answer All questions in Section A and any other Two questions in Section B**

**SECTION A 30 MARKS**

1. What targets had the Agriculture sector set in Kenya to achieve by 2015. [5 Marks]
2. Outline the functions of potassium in plants. [4 Marks]
3. (a). Describe briefly the criteria used for classifying horticultural cropping systems. [6 Marks]  
  
(b) . Discuss the ways used to classify fruit crops, giving specific examples of fruits. [ 5 Marks]
4. (a). What features are considered in designing a crop rotation programme. [6 Marks]  
  
(b). Outline the role of Ethylene as a plant growth hormone. [4 Marks]

**SECTION B TOTAL 40 MARKS**

5. (a) Discuss the various types of greenhouse used for horticultural crops. [12 Marks]
- (b). Outline the role of Ethylene as a plant growth hormone. [4 Marks]
6. (a) Describe the properties of a good growing media. [12 Marks]
- (b) Discuss the factors that have led to the success of the horticultural industry in Kenya. [8 Marks]
7. Discuss how the following factors affect plant growth;
- (a) Environmental factors. [15 Marks]
- (b) Genetic factors [5 Marks]