



**KISII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**

**THIRD YEAR EXAMINATION FOR THE AWARD OF**  
**THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURAL**  
**EDUCATION AND EXTENSION**  
**SECOND SEMESTER 2017/2018**  
**(MAY-AUGUST, 2017)**

**HORT 331: VEGETABLE PRODUCTION**

**STREAM: Y3S2**

**TIME: 2 HOURS**

**DAY: WEDNESDAY, 3.00 PM - 5.00 PM**

**DATE: 13/09/2017**

**INSTRUCTIONS**

1. *Do not write anything on this question paper.*
2. *Answer ALL Questions in section A and any other TWO Questions from section B.*

**SECTION A (30MARKS)**

1. Explain the following routine vegetable crop management practices.

- |                  |          |
|------------------|----------|
| (i) Gapping      | [2Marks] |
| (ii) Earthing up | [3Marks] |
| (iii) Watering   | [2Marks] |

2. Describe the following: Give examples.

- |   |          |
|---|----------|
| (i) Relay intercropping.                                  | [3Marks] |
| (ii) The importance of a nursery in vegetable production. | [5Marks] |
| (iii) Crop rotation in vegetable production.              | [4Marks] |

3. Explain the practical horticultural classification of vegetables according to the method of culture giving at least 4 groups. Give the family and botanical names of at least two examples of vegetable crops in each group. [6Marks]

4. Considering their diverse nature, it is very difficult to come up with a single, acceptable, all-encompassing definition of vegetables. Define and describe characteristics that define a vegetable and give appropriate examples. [5Marks]

**SECTION B (40MARKS)**

- ✓ 5. (a) Discuss the harvesting and curing of onions. [10Marks]
- (b) Describe any two tomato physiological disorders. [10Marks]
6. Discuss the harvesting and post-harvest handling of vegetables. Give appropriate examples. [20Marks]
- ✓ 7. Discuss the effects of temperature on tomato, carrot, cabbage and onion production. [20Marks]
8. (i) Describe how a farmer would prepare his/her potato tubers for planting. [10Marks]
- (ii) Discuss pruning of green house tomato plants. [10Marks]