KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

FOURTH YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION
FIRST SEMESTER 2022/2023
(SEPTEMBER - DECEMBER, 2022)

HORT 331: VEGETABLE PRODUCTION

STREAM: Y4 S1   **TIME: 2 HOURS**

DAY: TUESDAY, 12:00 P.M – 2:00 P.M   **DATE: 06/12/2022**

INSTRUCTIONS:
1. Do not write anything on this question paper.
2. Answer ALL Questions in section A (Compulsory) and any other TWO Questions in section B.

SECTION A. (30 MARKS)

1. Define and describe the characteristics that define a vegetable and give appropriate examples. (5 marks)

2. Write short notes in the following:

   i. Successional cropping (2 Marks)
   ii. Transplanting of vegetables (2 marks)
   iii. Crop rotation in vegetable production (5 marks)
   iv. General harvesting and post-harvest handling of vegetables. (4 marks)
   v. The importance of a vegetable nursery (4 marks)
   vi. Outline the characteristics of the vegetable industry. (4 marks)
   vii. Describe any 2 anti-nutritional factors in vegetables (4 marks)

SECTION B (40 MARKS)

3. a). Discuss how temperature affects potato production.

(10 marks)

b). Prepare a detailed write-up on potato greening and black heart disorders in potatoes. (10 marks)

4. Climate is a major factor of concern in site selection for growing a specific vegetable. In view of this discuss the effect of temperature on, carrot, tomato, onion AND cabbage production (20 marks)

5. a). Describe the harvesting and post-harvest handling of onions.

(10 marks)

b). Describe any one significant plant disease commonly found in the Solanaceae family and another in Brassicaceae family that would be of concern to a farmer and extension officer. (10 marks)

6. a). Training in tomatoes involves both pruning and support. Describe the pruning processes that are commonly carried out in tomatoes.

(15 marks)

b). Discuss harvesting, buttoning and blindness in cauliflower.
(5 marks)