



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

**THIRD YEAR FIRST SEMESTER UNIVERSITY EXAMINATION FOR THE DEGREE
OF BACHELOR OF SCIENCE IN HORTICULTURE**

3rd YEAR 1ST SEMESTER 2017/2018 ACADEMIC YEAR

REGULAR

COURSE CODE: AHT 3311

COURSE TITLE: VEGETABLE CROPS 1

EXAM VENUE:LR 3

STREAM: BSc. (Horticulture)

DATE:12/12/17

EXAM SESSION: 9.00 – 11.00 AM

TIME: 2 HOURS

Instructions:

- 1. Answer ALL questions in section A and ANY other 2 Questions in section B.**
- 2. Candidates are advised not to write on question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A [30 MARKS]

Answer ALL questions from this Section.

1. Define the following terms with examples:
 - a. Olericulture (2 Marks)
 - b. Parthenocarpy (2 Marks)
 - c. Cole crops (2 Marks)

2. Differentiate between the following
 - a. Squash and cucumber (2 Marks)
 - b. Determinate and indeterminate tomato cultivars (2 Marks)
 - c. Trellising and training (2 Marks)

3. a) List four groups found in the Brassica family (4 Marks)
b) For each of the groups above give at least one example (2 Marks)
c) Briefly explain three physiological disorders in cauliflower (6 Marks)

4. Explain the following terms as used in vegetable production.
 - a. Organic vegetable production (3 Marks)
 - b. Hydroponics (3 Marks)

SECTION B [40 MARKS]

Answer ANY TWO questions from this Section.

5. Cucurbits have a unique flowering (sex expression) characteristic. Discuss this phenomenon citing the various types and the conditions that affect occurrence of the same. (20 Marks)

6. There are several ways of classifying vegetables. Citing examples, discuss the various classification methods in use. (20 Marks)

7. Vegetables can either be grown in the field or greenhouse. Explain the commercial production of two crops one in the greenhouse and the other in the field. One must be from A and another from B or C. (20 Marks)
 - a. Solanaceae
 - b. Cucurbitaceae
 - c. Chenopodiaceae

8. a) What do you understand by the term plant breeding? (2 Marks)
b) Discuss important parameters that are bred for. (18 Marks)