



**JARAMOGI OGINGA ODONGA UNIVERSITY OF SCIENCE AND
TECHNOLOGY**

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

**THIRD YEAR SECOND SEMESTER UNIVERSITY EXAMINATION FOR
THE DEGREE OF BACHELOR OF SCIENCE HORTICULTURE
2017/2018 ACADEMIC YEAR**

REGULAR

COURSE CODE: AHT 3325

COURSE TITLE: VEGETABLE CROPS II

EXAM VENUE:

STREAM: BSc. (Horticulture)

DATE:

EXAM SESSION:

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. a) What do you understand by the Asian vegetables? **(1 Mark)**
b) State three determinants of nutrient requirement in Asian vegetables. **(3 Marks)**

2. a) List four Asian vegetables in the cucurbitaceae family **(4 Mark)**
b) What do you understand by the term trellising as used in Asian vegetables. **(2Marks)**

3. a) Differentiate between hot and sweet pepper **(2 Marks)**
b) state two varieties of hot pepper **(2Marks)**
c) State two varieties of sweet pepper **(2 Marks)**

4. Give the symptoms of
a) Boron deficiency in Asian vegetables **(2 Marks)**
b) Magnesium deficiency in Asian vegetables **(2 Marks)**

5. a) List three mosaic diseases in the family cucurbitaceae **(3 Marks)**
b) Give three symptoms of the diseases above **(3 Marks)**

6. a) List three key pests in Dolichos **(3Marks)**
b) Name one major disease in volore **(1 Mark)**

SECTION B [40 MARKS]

Answer ANY TWO questions from this Section.

7. Discuss production of eggplant under the following sub headings:
a) Climatic and water management
b) Cultivars grown
c) Fertilization
d) Physiological disorders
e) Diseases **(20 marks)**

8. Growth of the Asian vegetable value chain faces a myriad of challenges at all levels. Discuss. **(20 Marks)**

9. Discuss production of Bok Choy under the following sub headings
a. Soil requirements
b. Fertilization
c. Pests and diseases
d. Post harvest handling and utilization

e. Health benefits

(20 marks)

10. Omondi is an aspiring okra farmer in Muhoroni who has sought your advice as the local horticultural crops officer in his ward. Clearly outline the advice you would advance to Omondi as he undertakes Okra Farming. Your advice should cover the following key areas:

- a) Varieties
- b) Planting
- c) Fertilizer application
- d) Harvesting
- e) Pests and diseases

(20 Marks)