



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

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

**THIRD YEAR SECOND SEMESTER EXAMINATION FOR THE
DEGREE OF
BACHELOR OF SCIENCE IN HORTICULTURE
2017/2011 ACADEMIC YEAR**

REGULAR

COURSE CODE: AHT 3322

COURSE TITLE: SUSTAINABLE HORTICULTURAL PRODUCTION

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 in this section

- 1a. Explain the concept “sustainable horticultural production”. [4 marks]
- b. Explain environmental factors which affect fresh produce after harvest. [6 marks]
- c. Highlight key components of integrated crop management. [10 marks]
- d. A nursery practitioner wants to raise vegetable seedlings in advance which will be sold to local producers, explain the practitioner’s consideration in terms of environment and wildlife safety. [6 marks]
- e. Explain the importance of planting calendar in a horticultural farm. [4 marks]

SECTION B

[40 MARKS]

Answer ANY TWO questions in this section

2. Discuss strategies for developing a more sustainable horticulture production. [20 marks]
3. Explain the following in sustainable horticultural production:
- a. Input – efficient management
 - b. Social accountability
 - c. Species diversity
 - d. Local market requirements [20 marks]
- 4a. Horticulture must be productive and sustainable that meets the needs of society and the consumer without hindering the ability of future generations. As a consultant horticulturalist, a prospective grower approaches you to conduct a feasibility study for a horticultural project. Describe the components of the study bearing in mind of the above. [20 marks]

