



**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
2016/2017 ACADEMIC YEAR**

REGULAR

COURSE CODE: AHT 3322

COURSE TITLE: SUSTAINABLE HORTICULTURAL MANAGEMENT

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]

1a. Explain the following in relation to sustainable horticultural production:

- a) Integrated crop management (ICM). [3 marks]
- b) Integrated crop management (IPM) [3 marks]

b. Explain Good Agricultural Practices (GAP) sustainable horticultural production. [6 marks]

c. Highlight the requirements of export market for horticulture produce. [5 marks]

d. A nursery practitioner wants to raise vegetable seedlings in advance which will be sold to local producers, explain the site and substrate the practitioner would select. [5 marks]

e. State the sources of pollution in a horticultural farm. [3 marks]

f. Explain what is meant by traceability. [5 marks]

SECTION B

[40 MARKS]

2. Discuss the positive and negative effects of horticultural production on the environment.

[20 marks]

3. Explain in sustainable horticultural production:

a. Water – efficient irrigation

b. Social responsibility

c. Species diversity

d. Worker welfare

[20 marks]

4a. As a consultant horticulturalist, a prospective horticultural grower approaches you to advice on what to grow, how to grow and when to grow. What advice would you give?

[10 marks]

b. Explain the management practices in a nursery establishment.

[10 marks]