



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

**UNIVERSITY EXAMINATIONS 2012/2013**

**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER EXAMINATIONS FOR THE DEGREE  
OF BACHELOR OF SCIENCE (HORTICULTURE)**

**(REGULAR )**

**COURSE CODE: AHT 3111**

**COURSE TITLE: INTRODUCTION TO THE HORTICULTURAL  
INDUSTRY**

**DATE: 22/4/2013 TIME: 14.00-16.00PM**

**DURATION: 2 HOURS**

**INSTRUCTIONS**

- 1. This paper contains TWO sections.**
- 2. Answer ALL questions in section A (Compulsory) and ANY other Two questions in section B.**
- 3. Write all answers in the booklet provided.**

**SECTION A: ANSWER ALL QUESTIONS (TOTAL 40 MARKS)**

**Q.1)** Define the following:

- A. Horticulture (2 marks)
- B. Nursery Management (2 marks)
- C. Nutrient Film Technique (NFT) (2 marks)

**Q.2)** Explain the following:

- A. Role of Horticulture in the Kenyan economy (4 marks)
- B. International trade in horticultural produce (3 marks)
- C. Greenhouse farming in Kenya (3 marks)
- D. Irrigation systems used in horticultural farming (4 marks)

**Q.3)** Discuss the contribution of horticulture to the following:

- A. Food security and nutrition (3 marks)
- B. Mental health (3 marks)
- C. Climate change mitigation (4 marks)

**Q.4)** Discuss the mandate of the following institutions in relation to Horticulture

- A. FPEAK (3 marks)
- B. HCDA (2 marks).
- C. KEPHIS (3 marks)
- D. Ministry of Agriculture (2 marks)

**SECTION B: ANSWER ANY TWO QUESTIONS ( TOTAL 30 MARKS)**

**Q5.** Discuss in detail the Kenyan floriculture sub sector under the following topics:

- a) Production area and production systems (10 marks)
- b) Market destinations and value (5 marks)

**Q6.** Discuss the Agricultural Product Value Chain in horticulture (15 marks)

**Q7.** Job opportunities in horticulture include self employment in production, marketing, design, contracting and maintenance. Discuss a horticultural enterprise that you could operate in a specific branch of horticulture. (15 marks)