



**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  
2017/2018 ACADEMIC YEAR  
REGULAR**

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**COURSE CODE: AHT 3312**

**COURSE TITLE: TROPICAL AND SUB TROPICAL FRUITS**

**EXAM VENUE: LR 8**

**STREAM: BSc. (Horticulture)**

**DATE: 14/12/17**

**EXAM SESSION: 9.00 – 11.00 AM**

**TIME: 2 HOURS**

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**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. Given below a list of fruits :  
Apple, pineapple, avocado, banana, lemon, tamarillo, orange and mango. Classify the fruits into climacteric and non- climacteric fruits (6mks)
2. Describe the cultivars of guava that are grown in the tropics (6mks)
3. Describe anthracnose in avocado under the following
  - a. cause (2 Marks)
  - b. symptoms (3 Marks)
  - c. control (4 Marks)
4. Explain the advantages of vegetative propagation in citrus (9mks)

**SECTION B [40 MARKS]**

**Answer ANY TWO questions from this Section.**

5. Explain field establishment and management of *Carica papaya* under the following (20 Marks)
  - a. Ecological requirement,
  - b. culture,
  - c. diseases and pests
  - d. grading and use.
6. (a) Describe four types of banana plant suckers (8mks)
  - (b) Explain how the following cultural practices improve growth and yield in banana production (12mks)
    - (i) Pruning
    - (ii) de bunching
    - (iii) Bagging
7. (a) Highlight maturity indicators in mango (8mks)
  - (b) Discuss the importance of fruit processing (12mks)
8. Discuss the production of *Passiflora edulis* based on (20mks)
  - a. Tropical cultivars
  - b. Seed preparation
  - c. Fertilizer application
  - d. Pests and diseases