



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

**SCHOOL OF AGRICULTURAL AND FOOD SCIENCES**

**THIRD YEAR SECOND SEMESTER UNIVERSITY  
EXAMINATION FOR**

**THE DEGREE OF BACHELOR OF SCIENCE IN  
HORTICULTURE**

**2017/2018 ACADEMIC YEAR**

**REGULAR**

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**COURSE CODE: AHT 3326**

**COURSE TITLE: Temperate Fruits**

**EXAM VENUE:**

**STREAM: BSc. (Horticulture)**

**DATE:**

**EXAM SESSION:**

**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. State three reasons why pruning is necessary in fruit trees (3 marks)
2. Describe the four categories of rootstock used in apple propagation. (4 marks)
3. Describe bacterial blight in raspberry under the following
  - a. Cause (1Mark)
  - b. Symptoms (3 Marks)
  - c. Control (2 Marks)
4. Explain the procedure for pruning peach tree (5 marks)
5. List two cultivars of each of the following
  - a. Table grapes (2 marks)
  - b. wine grapes (2 marks)
  - c. Plums (2 marks)
6. Explain important uses of apricot. (6 marks)

**SECTION B [40 MARKS]**

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

5. Explain field establishment and management of *Kenyan pear* under the following. (20 Marks)
  - a. Ecological requirement,
  - b. propagation and culture,
  - c. diseases and pests
  - d. grading and use.
6. (a) Explain the factors considered in selecting suitable root stock for grapes (8 marks)  
(b) Discuss the constraints in grape production in Kenya (12 marks)
7. a. Discuss the important uses of straw berry (8 marks)  
b. Discuss the characteristics of the following varieties of straw berry grown in Kenya. (12 marks)
  - i. Chandler
  - ii. Douglas
  - iii. Aiko
  - iv. Pajaro
8. (a) Discuss black berry under the following (20 marks)
  - a. Ecology
  - b. Planting material,
  - c. Pruning and care
  - d. Pests and diseases