JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES
UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE IN FOOD SECURITY
2019/2020 ACADEMIC YEAR

COURSE CODE: APT 3322

COURSE TITLE: FRUITS AND VEGETABLE PRODUCTION

EXAM VENUE: **STREAM: (BSc. Food Security)**

DATE: **EXAM SESSION:**

TIME:

Instructions
1. Answer ALL questions in Section A (compulsory) and ANY TWO questions in Section B
2. Candidates are advised not to write on the 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

1. Describe the production trends of fruits and vegetable crop production in Kenya.
   (4 marks)
2. What is the mandate of the Horticultural Crop Directorate in the fruit and vegetable?
   (2 marks)
3. Explain the consumption trends of fruits and vegetables and their contribution to food security
   (4marks)
4. Describe the challenges faced by smallholder fruit and vegetable exporters.(4 marks)

5. Briefly discuss the postharvest handling of fruits and vegetables.   (4 marks)

6. Describe the management of the following pests and diseases:
   a. Banana weevil.   (2 marks)

   b. Bacterial wilt in potatoes   (2 marks)

   c. Botrytis in strawberries   (2 marks)

   d. Diamond back moth in kales   (2 marks)

7. Outline two unique attributes of using the following propagation material:
   a. Tissue cultured banana seedlings   (2 marks)

   b. Hybrid F1 tomato seeds   (2 marks)

SECTION B [40 MARKS]

Answer ANY TWO questions from this section

8. Discuss the production of the following:
   i. Onions.   (10 Marks)
   ii. Mangoes   (10 Marks)
9. Explain in detail the Integrated Crop Management of the fruit and vegetable listed below.

   i. Tomato,   (10 Marks)
   ii. Avocado   (10 Marks)

10. Discuss the practicality of organic farming of fruits and vegetables   (20 Marks)