

LAIKIPIA



UNIVERSITY

UNIVERSITY EXAMINATIONS

1ST SEMESTER 2023/2024 ACADEMIC YEAR

FOURTH YEAR EXAMINATIONS FOR BACHELOR OF SCIENCE IN AGRICULTURAL EXTENSION AND EDUCATION

AGED 416: FRUIT CROPS

STREAM: R

TIME: 2 HRS

DAY: THURSDAY (2.30-4.30PM)

DATE: 7/12/23

THIS QUESTION PAPER CONSISTS OF THREE (3 PAGES)

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.



INSTRUCTIONS: Answer question **ONE** and any other **TWO** questions.

QUESTION ONE (30 MARKS)

- a) Discuss five indicators used to determine maturity of fruits (5 marks)
- b) Describe four nutritive values of fruits (4 marks)
- c) By use of three relevant examples, distinguish between climateric and non-climateric fruits (6 marks)
- d) I) Explain the term center of diversity (3 marks)
 ii) Outline at least 4 centers of diversity with examples (4 marks)
- e) Fruit drop can occur frequently in mango. Discuss FIVE ways of stopping this loss to farmers (5 marks)
- f) It is commonly said that taking an apple a day keeps the doctor away. Following this statement, explain three nutritive values of apples (3 marks)

QUESTION TWO (20 MARKS)

- a) Papaya can be able to produce an important juice known as papain. Describe how this can be extracted (10 marks)
- b) Explain five factors that affect sex expression in papaya (10 marks)

QUESTION THREE (20 MARKS)

- a) Describe the growth of peach under the following sub-headings:
 - i) Favourable climatic conditions (5 marks)
 - II) Soils (5 marks)
- j) Discuss the propagation of peach giving special attention to rootstocks (10 marks)



QUESTION FOUR (20 MARKS)

- a) I) State the five commonly grown avocado varieties in Kenya (5 marks)
ii) Give one characteristic of each ovacado variety (5 marks)
- b) Discuss the propagation methods of avocado with special attention on breaking seed dormancy (10 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss in detail five special cultural operations involved in apple production (10 marks)
- b) Mention four pests that affect apple production (4 marks)
- c) Identify two diseases that affect apple production (2 marks)
- d) List two characteristics of each of the diseases listed in C above. (4 marks)

