

LAIKIPIA



UNIVERSITY

UNIVERSITY EXAMINATIONS

1ST SEMESTER 2022/2023 ACADEMIC YEAR

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

AGED 416: TROPICAL AND SUB TROPICAL FRUIT CROPS

STREAM: R

TIME: 2 HRS

DAY: THURSDAY (8.30-10.30AM) DATE: 8/12/22

THIS QUESTION PAPER CONSISTS OF TWO (2 PAGES)

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.



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

QUESTION ONE (30 MARKS)

- a) What are the recommended storage conditions of fruit crops? (5 mks)
- b) Describe four edible passion fruit species available in Kenya (8 mks)
- c) What are the reasons for the decline in acreage under citrus fruits and orchards in Kenya?
Suggest strategies to improve it. (10 mks)
- d) Describe the management of weevils in banana orchards (4 mks)
- e) What is the relationship between altitude and fruit quality in pineapples? (3 mks)

QUESTION TWO (20 MARKS)

Discuss banana production under the following subtopics

- i. Pollination and fruit set (5 mks)
- ii. Ecological requirements (5 mks)
- iii. Objectives of pruning (5 mks)
- iv. Special operations in banana production (5 mks)

QUESTION THREE (20 MARKS)

- a) Discuss the adaptive features of pineapple (*Ananas comosus*) fruit crop as a xerophyte (10 mks)
- b) What are the problems facing the Kenya fruit industry (10 mks)

QUESTION FOUR (20 MARKS)

- a) Explain how mangoes are propagated (8 mks)
- b) What is the relationship between the number of flowers and the number of fruits in mangoes. (5 mks)
- c) Discuss the biennial bearing phenomenon (7 mks)