



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

FOURTH YEAR SPECIAL/ SUPPLEMENTARY EXAMINATION FOR
BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

HOR 442: FRUIT PRODUCTION

DATE: 21/01/2021

TIME: 2.00-4.00 PM

INSTRUCTIONS:

Answer *ALL* questions from Section A and any other *TWO* from Section B:

SECTION A: COMPULSORY: (30 MARKS)

QUESTION ONE

- a) Explain the THREE classifications of fruits based on the climatic conditions (3 marks)
- b) Explain FOUR economic importance of growing fruits (4 marks)
- c) Explain FOUR reasons for pruning fruit trees (4 marks)
- d) Explain FOUR disadvantages of clean cultivation method in weed control in fruit production (4 marks)
- e) Describe TWO ways of boosting pollination in a fruit orchard (4 marks)
- f) Citing specific examples, explain four conditions under which vegetative propagation would be more suitable for a farmer to use in fruit production (4 marks)
- g) Explain THREE disadvantages of chemical thinning (3 marks)
- h) Describe FOUR marketing types for the fruit produce (4 marks)

SECTION B: Answer any TWO Questions (40 Marks)

QUESTION TWO

Describe the following management practices in production of pineapple

- a) Forcing (5 marks)
- b) Earthing up (5 marks)
- c) Removal of suckers (5 marks)
- d) Harvesting (5 marks)

QUESTION THREE

Describe the following types of fruit orchards

- a) High density orchard (5 marks)
- b) Multistoried orchard (5 marks)
- c) Clonal orchard (5 marks)
- d) Orchardling with intercrops (5 marks)

QUESTION FOUR

Describe the following management practices in production of apples

- a) Pollenizers and pollination (5 marks)
- b) Fruit pruning (5 marks)
- c) Staking (5 marks)
- d) Training (5 marks)

QUESTION FIVE

Explain the following management practices in production of avocados

- a) Ecological requirements (5 marks)
- b) Propagation (10 marks)
- c) Weeding (5 marks)