



UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

FIRST SEMESTER EXAMINATION

FOURTH YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
IN AGRICULTURE AND BACHELOR OF SCIENCE IN HORTICULTURE

ACH 401/ ACS 402: FRUIT PRODUCTION

DATE: DECEMBER 8, 2016

TIME: 8:30-10:30AM

INSTRUCTIONS:

Answer Question ONE and ANY other TWO Questions

QUESTION ONE (30 MARKS)

a). Define the following terms

- i) Drupe (1 mark)
- ii) Hesperidia (1 mark)
- iii) Biennial bearing (1 mark)
- iv) Pomes (1 mark)
- v) The French paradox (1 mark)

b). Write short notes on the following

- i) Nutritional benefits of consuming apples (*Malus pupila*) (5 marks)
- ii) Symptoms and management of *Armillaria* root rot in pears (*Pyrus communis*).

(5 marks)

iii) Control of codling moth (*Cydia pomonella*) in fruit trees of Rosaceae family.

(5 marks)

c). Assume you are a crop's production officer. Prepare a manual for training farmers on ecological requirements in cultivation of peaches (*Prunus persica*.) (5 marks)

d). Suppose you are employed by Ministry of Agriculture as a crop specialist in Makueni County. You have been invited by the County government to give a talk to local farmers on integrated management of anthracnose disease in Mangoes (*Mangifera indica*). Outline your notes (5 marks)

QUESTION TWO (20 MARKS)

a) Citing relevant examples, discuss the nutritional benefits of plums *prunus domestica*

(10 marks)

b) Discuss the selection and storage of grapes *Vitis vinifera* (10 marks)

QUESTION THREE (20 MARKS)

Assume you have completed school and you have acquired land that is not suitable for growing staple crops. Citing relevant examples, discuss why you would consider planting fruit trees on such land

QUESTION FOUR (20 MARKS)

a). Discuss soil requirements in growing of papayas (8 marks)

b). Discuss the economic importance of pineapple (6 marks)

c). Discuss the importance of good drainage in fruit tree production (6 marks)

QUESTION FIVE (20 MARKS)

a). Discuss the process of harvesting citrus fruits for commercial purposes (6 marks)

b). Suppose you are employed by Farm International organization as a crops officer and you have been invited by a group of farmers to train them on management of banana weevil (*Cosmopolites sordidus*). Outline your notes (8 marks)

c). Outline the health benefits of consuming avocado (*Persea Americana*) (6 marks)

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