



UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

SECOND SEMESTER EXAMINATION

**SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
HORTICULTURE**

ACH 404: FRUIT PRODUCTION 2 (TROPICAL AND SUB-TROPICAL FRUITS)

DATE: APRIL 6, 2017

TIME: 2:00-4:00PM

INSTRUCTIONS:

Answer Question ONE and ANY other TWO Questions

QUESTION ONE

- a) Define the following terms as applied in fruit tree production
- i. Topworking (1 Mark)
 - ii. Precocity (1 Mark)
 - iii. Juvenility (1 Mark)
- b) Write short notes on the following
- i. Importance of including diverse fruits in the diet (5 Marks)
 - ii. Benefits of asexual reproduction in fruit trees production (4 Marks)
- c) Assume that you are the leader of Mikocheni farmers self-help group and you have ventured into indigenous fruit tree production. You are to give a presentation in a workshop in regard to the challenges that the farmer group is facing. Briefly discuss your notes (5 Marks)
- d) Discuss farmer friendly practices that are used in management of anthracnose in bananas (5 Marks)
- e) Discuss the management of the root knot nematodes in tropical fruit trees (5 Marks)

- f) Outline the factors to consider when one wants to carry out budding in fruit trees

(3 Marks)

QUESTION TWO

- a) Assume you are a crop's specialist employed by Ministry of Agriculture. You are to talk to farmers on a field day on the reasons why farmers should embrace grafting of fruit trees.

Discuss your points

(9 Marks)

- b) Assume you have been employed by Farm Concern organization as an extension officer. You are to brief farmers on the soil and climatic requirements in growing of avocado. Discuss your notes

(5 Marks)

- c) Briefly explain and illustrate any three types of budding techniques that are commonly done in tropical fruit trees

(3 Marks)

QUESTION THREE

Assume that you have completed school and you have acquired land that is not suitable for arable farming. Citing relevant examples, discuss the economic importance of growing fruit trees on such land

(20 Marks)

QUESTION FOUR

- a) Discuss the various methods employed in insect pest management in citrus farming.

(10 Marks)

- b) Discuss the economic importance of passion fruit growing to the economic development of Kenya

(9 Marks)

- c) Discuss the importance of pruning in fruit trees

(5 Marks)

QUESTION FIVE

- a) Discuss the economic importance of mangoes

(10 Marks)

- b) Outline the integrated disease management strategies in papaya for the control of root rot

(10 Marks)

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