



EMBU UNIVERSITY COLLEGE

(A Constituent College of the University of Nairobi)

2015/2016 ACADEMIC YEAR

SECOND SEMESTER EXAMINATION

FOURTH YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
(HORTICULTURE)

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

DATE: APRIL 7, 2016

TIME: 08:30-10:30AM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions

QUESTION ONE

- a) Define the following terms
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|-----------------------|----------|
| i) Pomology | (1 Mark) |
| ii) Alternate bearing | (1 Mark) |
| iii) Top-working | (1 Mark) |
| iv) Interstock | (1 Mark) |
| v) Precocity | (1 Mark) |
- b) Differentiate between
- | | |
|----------------------------------|-----------|
| i) Clone and Cambium | (2 Marks) |
| ii) Budding and grafting | (2 Marks) |
| iii) Sunken beds and raised beds | (2 Marks) |
- c) Write short notes on the following
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|--|-----------|
| i) Limitations of marcotting in fruit trees | (5 Marks) |
| ii) Importance of post harvest handling of tropical fruits | (4 Marks) |

- d) Assume that you are employed by the Horticultural Crops Development Authority and you will talk to farmers about Good Agricultural Practice guidelines to be implemented by exporters. Outline your notes. (5 Marks)
- e) Discuss the management of the burrowing nematode (*Radopholus similis*) in bananas. (5 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 advantages of grafting in fruit trees. Discuss your points. (10 Marks)
- b) Assume you have been employed by Farm Concern organization as an extension officer. You are to brief farmers on the health benefits of consuming passion fruits. Discuss your notes. (10 Marks)

QUESTION THREE

- a) 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. (10 Marks)
- b) Assume you are hired by Farm International as a consultant. You are to talk to members of the public on the health benefits associated with consumption of mangoes. Discuss your points. (10 Marks)

QUESTION FOUR

- a) Discuss the methods employed in insect pest management in citrus farming. (6 Marks)
- b) Discuss the economic importance of pineapples growing to the economic development of Kenya. (9 Marks)
- c) Explain the importance of pruning in fruit trees. (5 Marks)

QUESTION FIVE

- a) Discuss the economic importance of avocado. (10 Marks)
- b) Outline the integrated disease management strategies in guava for the control of root rot (*Phytophthora cinnamomi*). (10 Marks)

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