



UNIVERSITY OF EMBU

2017/2018 ACADEMIC YEAR

SECOND SEMESTER EXAMINATIONS

FOURTH YEAR EXAMINATION FOR THE DEGREE OF SCIENCE IN
AGRICULTURE

ACH 404A: FRUIT PRODUCTION (TROPICAL AND SUBTROPICAL)

DATE: APRIL 9, 2018

TIME: 8:30 AM – 10:30 AM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE (30 MARKS)

a) Write short notes on the following:

- i) The importance of plant density on fruit yield and yield components in a named fruit. (4 marks)
 - ii) The significance of site selection in fruit orchard establishment. (5 marks)
 - iii) The importance of nitrogen nutrition in fruit crop development and fruit quality. (5 marks)
 - iv) Field planting of Avocado. (4 marks)
 - v) Propagules of pineapple. (4 marks)
- b) Explain the importance of center of greatest genetic diversity of mango. (8 mark)

QUESTION TWO (20 MARKS)

Discuss the following topics:

- a) Importance of fertilizing fruit trees immediately after bearing season. (4 marks)
- b) Woodiness disease in passion fruit. (8 marks)
- c) Irrigation for grapes. (8 marks)

QUESTION THREE (20 MARKS)

- a) Assume you are a member of a consultancy firm specializing in tropical fruit growing. A client approaches you concerning the growing of bananas, advise the client regarding:
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- i) Field establishment of Bananas. (5 marks)
 - ii) Planting hole size for bananas in Tropics. (5 marks)
 - iii) The banana rhizome weevil. (5 marks)

QUESTION FOUR (20 MARKS)

- a) Describe any FOUR ecological factors affecting the distribution and productivity of fruit crops. (12 marks)
- b) Pomegranate production in Kenya is gaining immense importance. Describe the health benefits of Pomegranate. (8 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss any FIVE problems associated with the growing of a named tropical or subtropical fruit crop in Kenya. (15 marks)
- b) Discuss benefits of growing fruit trees in Embu County. (5 marks)

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