



SUPPLEMENTARY 2018/2019

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UNIVERSITY OF ESWATINI

SUPPLEMENTARY EXAMINATION PAPER

**PROGRAMME: BACHELOR OF SCIENCE IN AGRONOMY YEAR III
AND BACHELOR OF SCIENCE IN HORTICULTURE
YEAR III**

COURSE CODE: HORT 304

TITLE OF PAPER: TROPICAL AND SUBTROPICAL FRUIT CROPS

TIME ALLOWED: TWO [2] HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS.

**DO NOT OPEN UNTIL PERMISSION HAS BEEN GRANTED BY THE
INVIGILATOR**

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

QUESTION 1

On your field visit you were exposed to the variability of flowering that causes yield unpredictability on Mango (*Mangifera indica* L.).

- a) Outline the components of the flowering process (8 marks)
- b) Discuss flowering plasticity that culminates in alternate bearing typical of the mango crop. (17 marks)

[25 marks]

QUESTION 2

Discuss the production of Strawberry (*Fragaria anannasa*) following these guidelines:

- a) Climatic requirements (14 marks)
- b) Soils (8 marks)
- c) Spacing (3 marks)

[25 marks]

QUESTION 3

Write short note on the production of pawpaw (*Carica papaya* L) following these guidelines:

- a) climatic and soil requirements (15 marks)
- b) sex forms in papaya (10 marks)

[25 marks]

QUESTION 4

Discuss the production culture of the pomegranate (*Punica granatum* L.) following these guidelines

- a) climatic and soil requirements (6 marks)
- b) irrigation (4 marks)
- c) fertilization (2 marks)
- d) pruning (10 marks)
- e) propagation. (9 marks)

[25 marks]

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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QUESTION 5

The loquat (*Eriobotrya japonica* L) is a common fruit in the Kingdom of Eswatini, however it is not widely cultivated. Discuss the procedures to follow in propagation of this fruit crop. (25 marks)

[25 marks]