



2ND SEM 2018/2019

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UNIVERSITY OF ESWATINI

FINAL 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

Write short notes on marula (*Scchlerocarya birrea*) production under the following headings:

- a) Propagation practices
- b) Selection criteria for genetic development of marula: (5marks) (20 marks)

[25 marks]

QUESTION 2

Discuss the production of acerola (*Malpighia puniceifolia* L.) under the following headings:

- a) Soil requirements (11 marks)
- b) Fertilisation (1 mark)
- c) Pruning (1 mark)
- d) Irrigation requirements (3 marks)
- e) Harvesting and productivity (9 marks)

[25 marks]

QUESTION 3

Write short notes on the following:

- a) Adventitious roots and buds (5 marks)
- b) Aggregate fruit (3 marks)
- c) Incompatibility (4 marks)
- d) Nucellar embryony (3 marks)
- e) Open centre (4 marks)
- f) Parthenocarpy (3 marks)
- g) Yield efficiency (3 marks)

[25 marks]

QUESTION 4

Provide a manual for banana (*Musa acuminata* L) production following these guidelines:

- a) Climate and soils (10 marks)
- b) Planting material (2 marks)
- c) Spacing (3 marks)
- d) Fertilisation (6 marks)
- e) Pests (2 marks)
- f) Diseases (2 marks)

[25 marks]

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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QUESTION 5

Cactus pear (*Opuntia ficusindica*) is well adapted to Southern Africa but not widely cultivated in Eswatini. Discuss its production under the following:

- | | |
|----------------------------------|-----------|
| a) Climate and soil requirements | (9 marks) |
| b) Planting | (2 marks) |
| c) Fertilisation | (3 marks) |
| d) Irrigation | (4 marks) |
| e) Weed control | (4 marks) |
| f) Uses | (3 marks) |

[25 marks]