



SUPPLEMENTARY 2010/2011

PAGE 1 OF 3

UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

**PROGRAMME: BACHELOR OF SCIENCE IN AGRONOMY III AND
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 the production of papaya (*Carica papaya* L) under the following headings:

- a) Climate (10 marks)
- b) Soils (3 marks)
- c) Papaya sexual forms (8 marks)
- d) Planting material and spacing (4 marks)

[25 marks]

QUESTION 2

Write short notes on some aspects of production of acerola (*Malpighia punicifolia* L.):

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

[25 marks]

QUESTION 4

Discuss banana (*Musa acuminata* L) production under the following headings:

- a) Climate and soils (12 marks)
- b) Planting material (2 marks)
- c) Plant spacing (3 marks)
- d) Fertilisation (6 marks)
- e) Pest (1 mark)
- f) Disease (1 mark)

[25 marks]

QUESTION 5

Write notes on the climate and cultural practices of Cactus pear (*Opuntia ficus indica*) under the following headings:

- 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]