



2nd SEM. 2010/2011

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

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

COURSE CODE: HORT 304

TITLE OF PAPER: TROPICAL AND SUBRTROPICAL 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

- a) Outline the main and secondary objectives of orchard floor management (5 marks)
 b) Provide any two (2) advantages and any two (2) disadvantages associated with each orchard floor management tool by completing the table below (20 marks)

Advantages and Disadvantages of Orchard floor Management Strategies.		
Tool	Advantages (any 2 in each category)	Disadvantages (any 2 in each category)
Cultivation		
Mulching		
Mowing		
Chemical (Herbicides)		
Biological		

[25 marks]

QUESTION 2

Briefly describe the following types of citrus.

- a) Tangelo (10 marks)
 b) Ugli fruit (7 marks)
 c) Calamondin (8 marks)

[25 marks]

QUESTION 3

- a) Describe the methods commonly employed in the propagation of marula. (20 marks)
 b) What selection criteria would you employ in the genetic development of marula trees (5 marks)

[25 marks]

QUESTION 4

Write notes on the following aspects of production of jaboticabas (*Myrciaria cauliflora* Berg):

- a) Site (4 marks)
- b) Fertilization (6 marks)
- c) Propagation (15 marks)

[25 marks]

QUESTION 5

Write notes on aspects of production culture of Cape gooseberry (*Physalis peruviana* L or *P. edulis* Sims) under the following headings:

- a) Soil type, drainage, and water requirements (10 marks)
- b) Propagation (13 marks)
- c) Spacing (2 marks)

[25 marks]