



SUPPLEMENTARY 2012/2013

PAGE 1 OF 3

UNIVERSITY OF SWAZILAND

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

- a) Discuss the main and secondary objectives of orchard floor management. (5 marks)
 b) List **two (2)** advantages and **two (2)** disadvantages associated with each orchard floor management tool in 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

Identify and 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 are the selection criteria required in the genetic improvement of marula (5 marks)

[25 marks]

QUESTION 4

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

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

[25 marks]

QUESTION 5

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

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

[25 marks]