



**2<sup>ND</sup> SEMESTER EXAMINATION 2014/2015**

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**UNIVERSITY OF SWAZILAND**

**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 & SUBTROPICAL FRUIT PRODUCTION**

**TIME ALLOWED: TWO [2] HOURS**

**INSTRUCTIONS: ANSWER FOUR (4) QUESTIONS**

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

**INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS**

**QUESTION 1**

- a) What is the main objective of orchard floor management? (1 mark)
- b) List four (4) advantages and four (4) disadvantages associated with each orchard floor management tool by completing the table below: (24 marks)

Advantages and Disadvantages of Orchard floor Management Strategies		
Tool	Advantages (any 4 in each category)	Disadvantages (any 4 in each category)
Cultivation		
Mulching		
Chemical (Herbicides)		

**[25 marks]**

**QUESTION 2**

Discuss the production of the avocado (*Persea americana* L.) using these guidelines:

- a) Soil requirements (6 marks)
- b) Spacing (5 marks)
- c) Fertilization (14 marks)

**[25 marks]**

**QUESTION 3**

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

- a) Planting material (5 marks)
- b) Spacing (11 marks)
- c) Fertilization (9 marks)

**[25 marks]**

**QUESTION 4**

Discuss the following pruning methods:

- a) Open centre (10 marks)
- b) Central leader (10 marks)
- c) Modified central leader (5 marks)

**[25 marks]**

**QUESTION 5**

Write notes on the production of dragonfruit or pitaya (*Hylocereus undatus*) using the following guidelines:

- a) Description and climatic requirements (10 marks)
  - b) Propagation (15 marks)
- [25 marks]**