



**2<sup>ND</sup> SEM 2011/2012**

**PAGE 1 OF 3**

**UNIVERSITY OF SWAZILAND**

**FINAL EXAMINATION**

**PROGRAMMES:            BACHELOR OF SCIENCE IN AGRONOMY  
                                 YEAR 3 AND BACHELOR OF SCIENCE IN  
                                 HORTICULTURE YEAR 3**

**COURSE CODE:            HORT 304**

**TITLE OF PAPER:        TROPICAL AND SUBTROPICAL FRUIT  
                                 PRODUCTION**

**TIME ALLOWED:         TWO (2) HOURS**

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

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

**INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS****QUESTION 1**

- a) State the main objective of orchard floor cultivation (1 mark)
- b) Discuss four (4) advantages and four (4) disadvantages of the following methods of orchard floor management:
- i) Chemical control (8 marks)
- ii) Biological control (8 marks)
- ii) Mulching (8 marks)
- [25 marks]**

**QUESTION 2**

Provide a production manual for granadilla (*Passiflora edulis*) cultivation following these guidelines:

- a) Climatic requirements (10 marks)
- b) Fertilization (10 marks)
- c) Trellising and pruning (5 marks)
- [25 marks]**

**QUESTION 3**

- a) List five (5) purposes of pruning young trees (5 marks)
- b) Describe two types of pruning cuts (5 marks)
- c) Provide the basic guidelines of when and how to prune fruit trees (15 marks)
- [25 marks]**

**QUESTION 4**

Discuss the planting plans used in laying out an orchard under the following headings:

a) Square system (12 marks)

b) Quincunx system (13 marks)

**[25 marks]**

**QUESTION 5**

Provide a production manual for banana (*Musa* spp) cultivation following these guidelines:

a) Climatic and soil requirements (12 marks)

b) Fertilisation (5 marks)

c) Pruning, props and desuckering (8 marks)

**[25 marks]**