



**1<sup>ST</sup> SEM 2011/12**

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**UNIVERSITY OF SWAZILAND  
FINAL EXAMINATION**

**PROGRAMME: BACHELOR OF SCIENCE IN HORTICULTURE  
YEAR IV**

**COURSE CODE: HORT 404**

**TITLE OF PAPER: TEMPERATE FRUIT AND NUT PRODUCTION**

**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) State the main objective of orchard floor management (1 mark)
- b) Describe 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 cashew nut cultivation following these guidelines:

- a) Soil requirements (8 marks)
  - b) Planting (12 marks)
  - c) Drying (5 marks)
- [25 marks]**

**QUESTION 3**

Describe five (5) techniques of trellising the grape (*Vitis vinifera*)

**[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**

Discuss the production of the pear (*Pyrus communis*) using the following guidelines:

- a) Soil and Climatic requirements (13 marks)
  - b) Rootstocks (12 marks)
- [25 marks]**