



**1<sup>st</sup> SEM 2012/2013**

**PAGE 1 OF 3**

**UNIVERSITY OF SWAZILAND**

**FINAL EXAMINATION PAPER**

**PROGRAMME:** BACHELOR OF SCIENCE IN AGRICULTURAL AND  
BIOLOGICAL ENGINEERING YEAR III,  
AGRICULTURAL EDUCATION YEAR III AND  
AGRICULTURAL ECONOMICS MANAGEMENT YEAR  
III

**COURSE CODE:** HORT 306

**TITLE OF PAPER:** VEGETABLE AND FRUIT PRODUCTION

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

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

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

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

**QUESTION 1**

Discuss the production techniques of Sweet (bell) pepper and chilli (hot) pepper under the following guidelines:

- a) Soil requirements (6 marks)
- b) Seeding rate (4 marks)
- c) Harvesting (15 marks)

[25 marks]

**QUESTION 2**

- a) Discuss the advantages and disadvantages of direct sowing (10 marks)
- b) Discuss the advantages and disadvantages of transplanting (15 marks)

[25 marks]

**QUESTION 3**

Discuss the climatic requirements of the date palm using these headings:

- a) Temperature requirements (10 marks)
- b) Rain effects (8 marks)
- c) Relative humidity (7 marks)

[25 marks]

**QUESTION 4**

Provide guideline for the production of grape (*Vitis vinifera* L) under the following headings:

- a) Soil and site requirements (6 marks)
- b) Trellising (10 marks)
- c) Irrigation (5 marks)
- d) Weed control (4 marks)

[25 marks]

**QUESTION 5**

- a) Discuss the main and secondary objectives of orchard floor management. **(5 marks)**  
 b) List any two (2) advantages and any two (2) disadvantages associated with each of the following orchard floor management tools: **(20 marks)**

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

**[25 marks]**