



**2<sup>ND</sup> SEM EXAMINATION 2015/2016**

**PAGE 1 OF 3**

**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**

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

- a) Discuss 'polyembryony' as it occurs in citrus and mango. (15 marks)
- b) Discuss the major possible horticultural applications of polyembryony. (10 marks)

**[25 MARKS]****QUESTION 2**

- 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)
Chemical control		
Clean cultivation		
Mulching		

**[25 marks]****QUESTION 3**

Write short notes on the following:

- a) branch cutting propagation. (16 marks)
- b) root cutting propagation. (6 marks)
- c) separation. (3 marks)

**[25 MARKS]**

**QUESTION 4**

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

- a) Soil and water management. (14 marks)
- b) Spacing. (11 marks)

**[25 marks]**

**QUESTION 5**

Discuss the production of pomegranate using the following guidelines:

- a) Climatic requirements. (12 marks)
- b) Soils. (3 marks)
- c) Irrigation. (10 marks)

**[25 marks]**