



**2ND SEM. 2007/2008**

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**UNIVERSITY OF SWAZILAND**

**FINAL EXAMINATION**

**PROGRAMME : BACHELOR OF SCIENCE IN AGRONOMY  
YEAR III & BACHELOR OF SCIENCE IN  
HORTICULTURE YEAR III**

**COURSE CODE : HORT 308**

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

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

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

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

**QUESTION 1**

With the aid of diagrams discuss the following:

- a) False fruit (4 marks)
- b) Berry (4 marks)
- c) Aggregate fruit (5 marks)
- d) Apomixis (12 marks)

[25 marks]

**QUESTION 2**

- a) Describe central leader training of avocado (7 marks)
- b) Discuss vine management in grape (*Vitis vinifera L*) culture (18 marks)

[25 marks]

**QUESTION 3**

Discuss flowering of the following tropical fruits:

- a) Hermaphrodite lychee (*Litchi chinesis*) (3 marks)
- b) Staminate papaya (*Carica papaya*) (3 marks)
- c) Synchronous dichogamy in avocado (*Persea americana L*) (13 marks)
- d) Dioecious common fig (*Ficus carica*)- (6 marks)

[25 marks]

**QUESTION 4**

Discuss the benefits of using bees in the pollination of the following fruit crops:

- (a) Pawpaw / Papaya (*Carica papaya L*) (10 marks)
- (b) Washington Navel sweet orange (*Citrus sinensis L*) (15 marks)

[25 marks]

**QUESTION 5**

Write notes pertaining to the production of the crops under the following headings:

- (a) 'slips' and 'suckers' in pineapple management (15 marks)
- (b) 'sucker' management in banana production (10 marks)

[25 marks]