

OK



1<sup>ST</sup> SEM 2006/2007

PAGE 1 OF 2

**UNIVERSITY OF SWAZILAND**

**FINAL EXAMINATION PAPER**

**PROGRAMME : BACHELOR OF SCIENCE AGRICULTURE YEAR V (AEM, CP, HORT & LWM OPTIONS)**

**COURSE CODE : HORT 501 ✓**

**TITLE OF PAPER : 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**

Your boss in the Ministry of Agriculture wants you to assist him write a paper entitled 'the status of the fruit crop industry in the Kingdom of Swaziland' to be presented in a conference. How would you approach this task?

[25 marks]

**QUESTION 2**

Pollination is a process and practice that entails both the scientific and business components

- a) Discuss how a fruit grower and a beekeeper are involved in the business side of the pollination of fruit crops
- b) Using relevant examples, discuss the pollination process as it occurs in avocado (*Persea americana* L)

[25 marks]

**QUESTION 3**

Some farmers in Malkerns are interested in production of a marketable crop of Pawpaw (*Carica papaya* ). How would you assist them.

[25 marks]

**QUESTION 4**

A farmer complains that the yield in his orchard fluctuates from a high in one season to a low or close to nothing in another season. With the knowledge that flowering is the foundation process in determining fruit crop productivity.. Discuss how your knowledge of 'plasticity in flowering' exhibited by mango (*Mangifera indica* L.) may assist in providing an explanation to the farmer's problem.

[25 marks]

**QUESTION 5**

The foundation from the bearing potential of fruit trees is laid during the training and pruning of fruit tree shoots and /or roots. Discuss the physiology governing the effects of pruning of any fruit tree shoot.

[25 marks]