



SUPPLEMENTARY EXAMINATION 2009/2010

PAGE 1 OF 2

UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN AGRONOMY AND 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

Describe the characteristics used in the selection of suitable citrus rootstocks.
[25 marks]

QUESTION 2

A group of farmers from Malkerns are interested in strawberry cultivation for export. Provide a cultivation manual covering climatic and soil requirements, irrigation, fertilization and spacing in order to assist the farmers in this endeavour. (25 marks)

QUESTION 3

The problem of self-incompatibility in citrus hybrids is due to slow pollen tube growth -and/or resultant inadequate cross pollination resulting in low fruit set hence low productivity. This necessitates the inclusion of a pollenizer variety in the planting plans.

- a) List the attributes of a good pollenizer for a self-incompatible variety (5 marks)
- b) Illustrate some of the pollenizer planting plans that are commonly used (20 marks)

[25 marks]

QUESTION 4

The loquat (*Eriobotrya japonica* L) is not widely grown in Swaziland due to difficulties experienced with the propagation techniques. Prepare a production guide for farmers who may be interested in propagation of loquat.

[25 marks]

QUESTION 5

Discuss the production culture of the pomegranate (*Punica granatum* L.) including climatic and soil requirements, irrigation, fertilization, pruning and propagation.

[25 marks]