



SUPPLEMENTARY 2011/12

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION

**PROGRAMMES: BACHELOR OF SCIENCE IN AGRONOMY
 YEAR 3 AND BACHELOR OF SCIENCE IN
 HORTICULTURE YEAR 3**

COURSE CODE: HORT 304

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

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

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

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

- a) What are the outcomes of pruning young trees? (13 marks)
- b) Discuss the principles to follow when pruning any tree for whatever purpose (12 marks)
- [25 marks]**

QUESTION 2

- a) What is a fruit? (1 mark)
- b) Provide the Family, Genus, Species, and / or Variety names for each of the following tropical and subtropical fruit crop species:
- i) Sour orange (3 marks)
- ii) Avocado (3 marks)
- iii) Litchi (3 marks)
- iv) Sweet orange (3 marks)
- v) Pomegranate (3 marks)
- vi) Pineapple (3 marks)
- vii) Granadilla (3 marks)
- viii) Pawpaw (3 marks)
- [25 marks]**

QUESTION 3

Discuss the planting plans used in laying out an orchard under the following headings:

- a) Rectangular system (12 marks)
- b) Hedgerow system (13 marks)
- [25 marks]**

QUESTION 4

Briefly describe the following types of citrus:

- a) Tangelo (10 marks)
 - b) Ugli fruit (7 marks)
 - c) Calamondin (8 marks)
- [25 marks]**

QUESTION 5

- a) State the main objective of orchard floor management (1 mark)
 - b) Describe four (4) advantages and four (4) disadvantages of the following methods of orchard floor management:
 - i) Cultivation (8 marks)
 - ii) Mowing (8 marks)
 - ii) Mulching (8 marks)
- [25 marks]**