

#### **SUPPLEMENTARY 2010/2011**

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### UNIVERSITY OF SWAZILAND

### SUPPLEMENTARY EXAMINATION PAPER

**PROGRAMME:** 

BACHELOR OF SCIENCE IN ABE, AEM AND

**AGRIC. EDUCATION YEAR III** 

**COURSE CODE:** 

**HORT 306** 

TITLE OF PAPER:

VEGETABLE AND FRUIT CROP PRODUCTION

TIME ALLOWED:

TWO [2] HOURS

**INSTRUCTIONS:** 

**ANSWER ANY FOUR (4) QUESTIONS** 

DO NOT OPEN UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR

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

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#### **QUESTION 1**

During your visit to Sidvokodvo you were exposed to the variability of flowering that causes yield unpredictability on Mango (Mangifera indica L.).

a) Outline the components of the flowering process

(8 marks)

b) Discuss flowering plasticity that culminates in alternate bearing typical of the mango crop. (17 marks)

[25 marks]

### **QUESTION 2**

Companion planting is an essential practice in sustainable horticulture practices.

a) what is a companion plant

(2 marks)

Provide at most two (2) appropriate compatible companion plants and incompatible plants for the following horticultural crops to complete the chart: (23 marks)

Crop	Compatible companion	Incompatible companion
Cabbage	2 marks	2 marks
Carrot	2 marks	1 mark
English pea	2 marks	2 marks
Irish potato	2 marks	2 marks
Onion	2 marks	2 marks
Pole bean	2 marks	2 marks

[25 marks]

### **QUESTION 3**

Write short notes on the following vegetable crop management practices:

a) Thinning of carrots (Daucus carota L)

(12 marks)

b) Staking of tomato (Lycopersicon esculentum L)

(13 marks)

[25 marks]

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# **QUESTION 4**

Provide the Family, Genus, Species, and / or Variety names for each of the following vegetable crop species:

- i) Irish potato
- ii) Loquat
- iii) Leek
- iv) Peach
- v) Asparagus
- vi) Macadamia
- vii) Broccoli
- viii) Mango

[25 marks]

### **QUESTION 5**

Write short note on the production of pawpaw (Carica papaya L) using these guidelines:

a) climatic and soil requirements

(15 marks)

b) sexual forms in papaya

(10 marks)

[25 marks]