



1<sup>st</sup> SEM 2013/2014

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME:** BACHELOR OF SCIENCE IN ABE YEAR III, AEE  
YEAR III AND AEM YEAR III

**COURSE CODE:** HORT 306

**TITLE OF PAPER:** FRUIT AND VEGETABLE PRODUCTION

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

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

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

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

**QUESTION 1**

- a) Discuss the production of carrot (*Daucus carota* L.) under the following guidelines:
  - (i) Soils and rotations (8 marks)
  - (ii) Fertilization (12 marks)
  - (iii) Plant spacing (5 marks)

**[25 marks]**

**QUESTION 2**

- a) What is 'crop coefficient?' (5 marks)
- b) Discuss the advantages of a drip irrigation system in fruit and vegetable production (12 marks)
- c) What are the disadvantages of drip irrigation system? (8 marks)

**[25 marks]**

**QUESTION 3**

Discuss the production of banana (*Musa acuminata* L.) under the following:

- a) Planting material (5 marks)
- b) Spacing (11 marks)
- c) Fertilization (9 marks)

**[25 marks]**

**QUESTION 4**

Discuss the production of cabbage (*Brassica oleracea* L.) using the following guidelines:

- a) Seedling production (13 marks)
- b) Plant spacing (12 marks)

**[25 marks]**

**QUESTION 5**

- a) List the factors that influence the amount of water and the irrigation frequency in vegetable crop production (8 marks)
- b) What are the advantages and disadvantages of mulching? (17 marks)

**[25 marks]**