



1st SEMESTER 2017/2018

PAGE 1 OF 2

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

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

COURSE CODE: HRT 305/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**

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

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

[25 marks]**QUESTION 2**

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

[25 marks]**QUESTION 3**

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

- c) Planting material (5 marks)
- d) Spacing (11 marks)
- e) Fertilization (9 marks)

[25 marks]**QUESTION 4**

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

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

[25 marks]**QUESTION 5**

Soil moisture management is important in vegetable production.

- a) Describe the factors that influence the amount of water to apply and the irrigation frequency (8 marks)
- b) Describe the advantages and disadvantages of mulching (17 marks)

[25 marks]