



1<sup>st</sup> SEM 2018/2019

PAGE 1 OF 3

UNIVERSITY OF ESWATINI

FINAL EXAMINATION PAPER

PROGRAMME:

BACHELOR OF SCIENCE IN ABE YEAR III, AEE  
YEAR III AEE EXT. YEAR III, AEM YEAR III AND  
COS YEAR III

COURSE CODE:

HORT 306 / HRT305

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**

Discuss the production of beetroot (*Beta vulgaris* L) following these guidelines:

- a) Climate and soils (9 marks)
- b) Planting and production practices (16 marks)

[25 marks]

**QUESTION 2**

Discuss the production of garlic (*Allium sativum* L) following these guidelines:

- a) Soils and management (12 marks)
- b) Planting and management practices (13 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****PAGE 2 OF 3**

- a) Briefly discuss the methods of proper handling of fruits and vegetables after harvest. (12)
- b) Outline the factors influencing postharvest changes in fruit and vegetables. (6)
- c) Briefly discuss the factors influencing water loss in postharvest handling of fruits and vegetables (5)

**[25 marks]****QUESTION 5**

Soil moisture management is important in vegetable production.

- a) Describe the factors that influence irrigation frequency (8)
- b) Describe the advantages and disadvantages of mulching (17)

**[25 marks]**