



2ND SEMESTER 2018/2019

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UNIVERSITY OF ESWATINI

FINAL EXAMINATION PAPER

PROGRAMME:

BACHELOR OF SCIENCE IN HORTICULTURE 4

COURSE CODE:

HRT404/HORT 409

TITLE OF PAPER:

POST-HARVEST TECHNOLOGY

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) Discuss the modified and controlled atmosphere storage. [10]
- b) What are the potential benefits and harmful effects of controlled atmosphere storage? [10]
- c) What is the difference between chilling injury and freezing injury? [5]

marks]

[25

Question 2

What are the factors affecting post-harvest quality of ornamental plants?

[25 marks]

Question 3

Discuss non-biological factors affecting quality of horticultural crops

[25 marks]

Question 4

Discuss post-harvest handling of banana as practiced in Tambuti Estate.

[25 marks]

Question 5

- a) Discuss methods used to prevent cut flowers from ethylene damage. [10]
- b) With the aid of a diagram only, draw the mechanism of ethylene action. [15]

[25 marks]