



RE-SIT/SUPPLEMENTARY 2018/2019

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UNIVERSITY OF ESWATINI

RE-SIT/SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN HORTICULTURE 1&4

COURSE CODE: HRT404/HORT 409

TITLE OF PAPER: POST-HARVEST TECHNOLOGY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

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

**Question 1**

- a) With the aid of examples, describe the different types of maturity. [5]
- b) Explain the various classifications of post-harvest losses [5]
- c) With aid of examples, discuss the uses of ethylene in agriculture? [15]

[25

marks]

**Question 2**

Discuss biological factors affecting quality of horticultural crops.

[25 marks]

**Question 3**

Discuss the basic steps involved in the processing of fruits and vegetables.

[25 marks]

**Question 4**

Discuss pre-harvest stresses which subsequently affect post-harvest quality of horticultural crops.

[25 marks]

Question 5

- a) With the aid of examples, describe the deleterious effects of ethylene. [10]
- b) With the aid of examples, describe these terms:
  - i. Freezing injury [5]
  - ii. Chilling injury [5]
  - iii. Heat injury [5]

[25 marks]