



2ND SEM. 2008/2009

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME: BACHELOR OF SCIENCE IN HORTICULTURE
YEAR 4**

COURSE CODE: HORT 409

**TITLE OF PAPER: POST-HARVEST PHYSIOLOGY OF
HORTICULTURAL CROPS**

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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BY THE CHIEF INVIGILATOR**

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

Question 1

Discuss biological factors that affect deterioration of harvested horticultural crops.

[25 marks]

Question 2

- a) Describe maturity indices used to harvest horticultural crops [13 marks]
- b) Discuss advantages and disadvantages of machine harvesting of horticultural crops [12 marks]

[25 marks]

Question 3

Describe various ways of pre-cooling harvested horticultural crops. Give examples.

[25 marks]

Question 4

“Wound physiology” best describes the physiology of minimally processed (MP) fruits and vegetables. Discuss this statement.

[25 marks]

Question 5

Describe with the aid of examples, desirable and undesirable effects of ethylene (C₂H₄) on harvested horticultural crops.

[25 marks]
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