

2nd SEM. 2007/2008

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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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INSTRUCTIONS:

ANSWER ANY FOUR (4) QUESTIONS

QUESTION 1

Discuss environmental factors that affect deterioration of harvested horticultural crops.

[25 marks]

QUESTION 2

Describe various maturity indices used to harvest fruits and vegetables. Give appropriate indices for specific crops.

[25 marks]

QUESTION 3

Describe post-harvest handling systems of ornamental crops.

[25 marks]

QUESTION 4

Discuss the use of modified and controlled atmosphere (MA and CA) during transport and storage of horticultural crops.

[25 marks]

QUESTION 5

a) Outline the ethylene (C₂H₄) biosynthetic pathway
b) Describe undesirable effects of C₂H₄ on harvested horticultural crops
[13 marks].
[12 marks]

[25 marks]