

2nd SEM. 2013/2014

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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:

POSTHARVEST PHYSIOLOGY OF

HORTICULTURAL CROPS

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTION:

ANSWER ANY FOUR (4) QUESTIONS

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INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

QUESTION 1

- a) Describe the advantages and disadvantages of mechanical harvesting of horticultural crops [10 marks]
- b) Discuss with the aid of examples five destructive maturity indices used in determining time of harvest of horticultural crops [15 marks]

[25 marks]

QUESTION 2

Discuss five biological factors that influence the deterioration of horticultural commodities

[25 marks]

QUESTION 3.

- a) Discuss the use of controlled atmosphere (CA) storage to prolong the shelf life of apples [12 marks]
- b) Describe supplements to temperature management in post-harvest handling of horticultural produce [13 marks]

[25 marks]

QUESTION 4

Discuss five methods of pre-cooling harvested horticultural crops

[25 marks]

QUESTION 5

Describe three methods of processing fruits and vegetables

[25 marks]