

2ND SEMESTER 2016/2017

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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 hand harvesting of horticultural crops.

[10 marks]

b) Discuss with the aid of examples five non-destructive maturity indices used to determine 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 cabbages. [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

Discuss micro-biological concerns of minimally processed fruits and vegetables [25 marks]