



1ST SEM. 2009/2010

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

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

COURSE CODE: HORT 402

TITLE OF PAPER: VEGETABLE PRODUCTION

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

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BY THE CHIEF INVIGILATOR**

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

Question 1

- a) Define a vegetable and give four (4) non-nutritional importance of vegetables to your country [5 marks]
- b) Discuss five (5) ways in which vegetables contribute to human nutrition

[20 marks]

[25 marks]

Question 2

- a) List five (5) important vegetables derived from the Solanaceous (Nightshade) family [5marks]
- b) Describe five (5) physiological disorders affecting tomato fruit and in each case suggest a way of alleviating a given disorder [20 marks]

[25 marks]

Question 3

- a) Describe three (3) groups of onion (*Allium cepa*) [6 marks]
- b) Discuss factors affecting bulbing in onion [19 marks]

[25 marks]

Question 4

- a) Describe the propagation of:
- (i) Irish/white potato (*Solanum tuberosum*) [5 marks]
- (ii) sweetpotato (*Ipomoea batatas*) [5 marks]
- (iii) carrot (*Dacus carrota*) [5 marks]
- b) Discuss physical and chemical characteristics of any three (3) traditional vegetables used in Swaziland [10 marks]

[25 marks]

Question 5

- a) Describe harvesting of lettuce (*Lactuca sativa*) and its storage requirements [4 marks]

- b) Describe four main species of pumpkin and squash [8 marks]
- c) Describe any three (3) ways in which legume vegetables are important [6 marks]
- d) Describe three (3) important factors that influence the production of Brassicas or Cole crops [6 marks]
- [25 marks]**