



**2<sup>ND</sup> SEM. 2007/2008**

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**UNIVERSITY OF SWAZILAND**

**FINAL EXAMINATION PAPER**

**PROGRAMME: BACHELOR OF SCIENCE AGRICULTURE YEAR V  
(LWM, CP and HORT OPTIONS)**

**COURSE CODE: HORT 502**

**TITLE OF PAPER: VEGETABLE CROPS**

**TIME ALLOWED: TWO [2] HOURS**

**INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS**

**DO NOT OPEN UNTIL PERMISSION HAS BEEN GRANTED BY THE  
INVIGILATOR**

**QUESTION 1**

The leafy mustard (*Brassica juncea* L.) is found and consumed in most parts of Swaziland. What are the major production problems currently faced by both consumers and producers of this crop? Discuss the possible solutions to these problems.

**[25 marks]**

**QUESTION 2**

Discuss the yield components and yield determination in the potato (*Solanum tuberosum* L.).

**[25 marks]**

**QUESTION 3**

The beginning of the nineties marked a renewed interest in the understanding of the culture of indigenous vegetables in the Crop Production department and the Faculty of Agriculture. Provide a brief discussion of some of the research advances made on the cultural practices *Imbuya* (*Amaranthus hybridus* L.).

**[25 marks]**

**QUESTION 4**

Organically produced vegetables fetch a premium on the export market. Display your understanding of the significance of organic sources of nutrition used in organic vegetable production.

**[25 marks]**

**QUESTION 5**

Discuss the value of using repellent crops in organic production of vegetables.

**[25 marks]**



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**FINAL EXAMINATION PAPER**

**PROGRAMME: BACHELOR OF SCIENCE IN AGRICULTURE  
YEAR V (HORTICULTURE OPTION)**

**COURSE CODE: HORT 503**

**TITLE OF PAPER: LANDSCAPE DESIGN**

**TIME ALLOWED: TWO (2) HOURS**

**INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS**

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THE CHIEF INVIGILATOR**

**INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS**

**QUESTION 1**

(a) Compare and contrast the historical landscapes of the Nile Valley and the ancient

Rome [10]

(b) Describe the hospital landscape [15]

[25]

**QUESTION 2**

Mr. Nhlanhla Maseko has purchased a property in the Coates Valley Estate in Manzini. He contracts you to undertake the landscaping of the site. Give a brief account of how you would undertake a landscape survey to determine the landscaping requirements of the site.

[25]

**QUESTION 3**

(b) Describe the construction of pathways/footpaths in the landscape [15]

(c) Describe the construction of swimming pool in the landscape [10]

[25]

**QUESTION 4**

Discuss the use, design and establishment of a rock garden in a public landscape

[25]

**QUESTION 5**

(a) Describe the irrigation of woody ornamental plants

[5]

(b) Describe the management of lawn grasses by use of plant growth retardants

[5]

(c) Discuss the estimation of cost of landscaping by:

(i) The time plus material method

[8]

(ii) Fixed price methods

[7]

[25]