



1ST SEM. 2012/2013

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

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

COURSE CODE: HORT 402

TITLE OF PAPER: HERBS, SPICES AND TRADITIONAL VEGETABLES

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

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CHIEF INVIGILATOR**

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

QUESTION 1

Describe propagation of herbs and spices by:

- | | |
|----------------------------|-----------|
| (i) seed | [6 marks] |
| (ii) cuttings | [6 marks] |
| (iii) grafting and budding | [7 marks] |
| (iv) tissue culture | [6 marks] |

[25 marks]

QUESTION 2

Describe the control of **five (5)** insect pests using herbs and spices.

[25 marks]

QUESTION 3

Describe the growing and use of the following herbs:

- | | |
|--|------------|
| (i) African wormwood (<i>Artemisia afra</i>) | [13 marks] |
| (ii) Lavender (<i>Lavandula officinalis</i>) | [12 marks] |

[25 marks]

QUESTION 4

Describe harvesting methods of the following:

- | | |
|----------------|-----------|
| (i) pepper | [5 marks] |
| (ii) vanilla | [5 marks] |
| (iii) cinnamon | [5 marks] |
| (iv) nutmeg | [5 marks] |
| (v) ginger | [5 marks] |

[25 marks]

QUESTION 5

Describe physical appearance, production and use of the following traditional vegetables:

- | | | |
|-------|----------------------------|------------|
| (i) | <i>Amaranthus hybridus</i> | [10 marks] |
| (ii) | <i>Bidens pilosa</i> | [8 marks] |
| (iii) | <i>Corchorus olitorius</i> | [7marks] |

[25 marks]