



**1<sup>ST</sup> SEM. 2011/2012**

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**UNIVERSITY OF SWAZILAND**

**FINAL EXAMINATION PAPER**

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

**COURSE CODE: HORT 410**

**TITLE OF PAPER: HERBS AND SPICES**

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

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

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THE 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]         |
|                            | <b>[25 marks]</b> |

**QUESTION 2**

Describe the control of insect pests using herbs and spices.

**[25 marks]**

**QUESTION 3**

Describe the growing and use of the following herbs:

- |  |                   |
|--|-------------------|
| (i) sage ( <i>Salvia officinalis</i> ) | [13 marks]        |
| (ii) thyme ( <i>Thymus vulgaris</i> )  | [12 marks]        |
|  | <b>[25 marks]</b> |

**QUESTION 4**

Describe harvesting methods of the following:

- |                |                   |
|----------------|-------------------|
| (i) cardamom   | [5 marks]         |
| (ii) vanilla   | [5 marks]         |
| (iii) cinnamon | [5 marks]         |
| (iv) nutmeg    | [5 marks]         |
| (v) tumeric    | [5 marks]         |
|                | <b>[25 marks]</b> |

**QUESTION 5**

Discuss five herbs used to alleviate disease symptoms of humans.

**[25 marks]**