



2ND SEM. 2007/2008

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

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

COURSE CODE: HORT 202

TITLE OF PAPER: PLANT PROPAGATION

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

QUESTION 1

- (a) Discuss the significance of sanitation in plant propagation [8]
 - (b) Discuss hot beds in plant propagation [10]
 - (c) Describe how you would install and utilise a lathhouse [7]
- [25]

QUESTION 2

- (a) Describe apomixes and its significance in plant propagation [5]
 - (b) Discuss the various types of seed dormancy [20]
- [25]

QUESTION 3

- (a) Discuss plant propagation by use of:
 - (i) leaf cuttings [5]
 - (ii) root cuttings [5]
 - (b) Describe polarity and its significance in plant propagation [5]
 - (c) Describe the effects of the following in rooting of cuttings:
 - (i) buds [5]
 - (ii) leaves [5]
- [25]

QUESTION 4

- (a) Describe the main reasons for grafting and budding [5]
 - (b) Describe the process of bud union formation [5]
 - (c) Discuss graft incompatibility in crops [10]
 - (d) Describe the major effects of the rootstock on scion cultivars after grafting or budding [5]
- [25]

QUESTION 5

- (a) Describe the factors that influence regeneration of plants by layering [5]
 - (b) Discuss the use of bulbs in plant propagation [15]
 - (c) Describe plant propagation by use of root cuttings [5]
- [25]