



**1<sup>ST</sup> SEMESTER 2009/2010**

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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 AND NURSERY  
MANAGEMENT**

**TIME ALLOWED: THREE (3) HOURS**

**INSTRUCTION: ANSWER ANY FIVE (5) QUESTIONS**

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

**INSTRUCTION: ANSWER ANY FIVE (5) QUESTIONS**

**QUESTION 1**

- (a) Discuss hot beds in plant propagation [10]
- (b) Describe how you would install and utilise a lath house [10]
- [20]

**QUESTION 2**

- (a) Describe the following propagation media:
- (i) vermiculite [5]
- (ii) perlite [5]
- (b) Discuss soil heat treatment [10]
- [20]

**QUESTION 3**

- (a) Describe chemical/inhibitor dormancy in seeds [5]
- (b) Discuss direct field seeding propagation system [10]
- (c) Describe how to induce graft chimera in horticulture [5]
- [20]

**QUESTION 4**

- (a) Describe plant propagation by use of root cuttings [5]
  - (b) Describe the process of graft union formation [10]
  - (c) Describe the T-budding technique [5]
- [20]**

**QUESTION 5**

- (a) Discuss the role of a nursery manager in respect to determination of goals [12]
  - (b) Explain how labour influences selection of a nursery site [8]
- [20]**

**QUESTION 6**

- (a) Describe the square planting design in field production nurseries [5]
  - (b) Describe the water distribution systems used in irrigating nursery plants [5]
  - (c) Describe how to avoid spreading of diseases in propagation areas [5]
  - (d) Describe how to determine price of nursery stock [5]
- [20]**