

2<sup>ND</sup> SEM. 2013/2014

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME:** 

BACHELOR OF SCIENCE IN HORTICULTURE

YEAR IV

**COURSE CODE:** 

**HORT 406** 

TITLE OF PAPER:

SEED SCIENCE AND TECHNOLOGY

TIME ALLOWED:

TWO [2] HOURS

**INSTRUCTIONS:** 

ANSWER ANY FOUR (4) QUESTIONS

DO NOT OPEN UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR

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

#### **QUESTION 1**

What is the function of seed legislation?	(7 marks)
b) Outline the objectives of the SADC Seed Security Network (SSSN)	(6 marks)
c) List the general requirements for seed labelling	(12 marks)

[25 marks]

### **QUESTION 2**

Describe the following components of seed quality:

a) Rapid tetrazolium seed viability (6 marks) b) Seed vigour tests (9 marks) c) Common problems with seed quality (10 marks)

[25 marks]

#### **QUESTION 3**

a) Describe the general aspects of a community based seed production training programme. (9 marks)

b) Describe the requirements for the recognition of a 'variety'. (16 marks)

[25 marks]

# **OUESTION 4**

a) Describe the seven seed classes according to the Seed Quality Control Services (SQCS) in Malkerns, Swaziland (14 marks) (11 marks)

b) Write notes on traditional vegetable seed production

[25 marks]

#### **QUESTION 5**

Write notes on the following:

a) Self-fertilization in vegetable crops (8 marks) b) Genetic emasculation (5 marks) c) Mechanical emasculation (6 marks) d) Chemical emasculation (6 marks)

[25 marks]