

1ST SEM. 2008/2009

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME:

BACHELOR OF SCIENCE IN HORTICULTURE

YEAR 4

COURSE CODE:

HORT 406

TITLE OF PAPER:

SEED SCIENCE AND TECHNOLOGY

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTIONS:

ANSWER ANY FOUR (4) QUESTIONS

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ANSWER ANY FOUR (4) QUESTIONS

Question 1

Discuss various ways of emasculation used in hybrid seed production. Give appropriate examples.

[25 marks]

Question 2

Discuss with the aid of examples how the following environmental factors affect seed production.

temperature a)

[12 marks]

b) mineral nutrition [13 marks]

[25 marks]

Question 3

- a) Draw and label the structure of:
- i) Zea mays kernel [10 marks]
- ii) Beta vulgaris seed [10 marks]
- b) Describe factors that influence germination of seeds [5marks]

[25 marks]

Question 4

Describe seed production in vegetables.

[25 marks]

Question 5

Discuss, giving local and Southern African Development Community (SADC) examples:

Seed marketing (i)

[12 marks]

(ii) Seed legislation and law enforcement [13 marks]

[25 marks]

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