



1st SEMESTER 2018/19

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UNIVERSITY OF ESWATINI

FINAL EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN HORTICULTURE YEAR 4

COURSE CODE: HRT401/HORT 406

TITLE OF PAPER: SEED SCIENCE

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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Question 1

- a) With the aid of examples describe these terms:
- i. Orthodox seeds [2]
 - ii. Recalcitrant seeds [2]
 - iii. Hypogeal germination [2]
 - iv. Epigeal germination [2]
 - v. Stratification [2]
- b) Discuss water uptake by seeds during germination stage model. [15]

[25 marks]

Question 2

- a) Briefly discuss treatment methods of seeds to enhance germination. [10]
b) Briefly discuss wet seed extraction. [15]

Question 3

Discuss packaging of processed seeds.

[25 marks]

Question 4

Discuss Tetrazolium germination test (TTZ test).

[25 marks]

Question 5

Discuss seed sampling.

[25 marks]