



1ST SEMESTER 2019/2020

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UNIVERSITY OF ESWATINI

FINAL EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN HORTICULTURE YEAR 4

COURSE CODE: HRT401

TITLE OF PAPER: SEED SCIENCE

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

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Question 1

- a) Discuss the three-stage model during seed germination. [15]
- b) With the aid of examples describe these terms:
- i. Orthodox seeds [3]
 - ii. Recalcitrant seeds [3]
 - iii. Intermediate seeds [2]
 - iv. Genetically pure seeds [2]

[25]

Question 2

- a) Discuss the wet seed extraction method. [15]
- b) How can you maintain seed genetic purity? [10]

Question 3

Discuss the climatic factors affecting vegetable seed production.

[25]

Question 4

- a) Discuss four tests that are routinely conducted in seed testing laboratories. [10]
- b) Discuss seed stratification. [15]

[25]

Question 5

Discuss seed quality attributes.

[25]