



1ST SEMESTER 2019/2020

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UNIVERSITY OF ESWATINI

RE-SIT 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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INVIGILATOR**

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

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Question 1

What are the agronomic principles to consider for good quality seed production?

[25]

Question 2

- a) Why is seed testing important? [5]
- b) Discuss the Tetrazolium test for testing seed viability. [20]

[25]

Question 3

- a) Discuss the operations involved in seed processing.

[25]

Question 4

- a) With the aid of examples, describe the reasons for which cross-pollination takes place in the crops? [12]
- b) Discuss the classes and sources of certified seed. [10]
- c) What is stratification? [3]

[25]

Question 5

- a) Discuss vegetable seed crops based on the state of seed at harvest time. [10]
- b) Describe the following terms:
 - i. Physically pure seeds [3]
 - ii. Normal seedlings [2]
 - iii. Abnormal seedlings [2]
 - iv. Dead seeds [2]
 - v. Hypogeal germination [2]
 - vi. Epigeal germination [2]
 - vii. Scarification [2]

[25]