



EASTERN UNIVERSITY, SRI LANKA

FINAL EXAMINATION IN AGRICULTURE (500 SERIES)  
2000/2001

SEED PHYSIOLOGY AND TECHNOLOGY (ABI 416)

**Answer All Questions**

**Time allowed: 03 hours**

- 1)
  - a) Describe the structure of a named non-endospermic seed.
  - b) Briefly explain the relation of viability and vigour of a seed lot to its deterioration.
  - c) Write a short account on seed types based on their uses.
- 2) Explain the following:
  - a) The concept of seed vigour and indicate means by which loss in seed vigour is expressed.
  - b) Effect of seed moisture and storage temperature on the deterioration of stored seeds.
- 3)
  - a) Explain the influence of hard seededness and light on seed dormancy.
  - b) Discuss the biochemical principles of the tetrazolium test to determine the viability of seeds.
- 4) Discuss the important aspects that are considered in the production and storage of seeds to maintain quality.
- 5) Write short notes on the following :
  - a) Storage of seed for genetic conservation.
  - b) Usefulness of Seed Certification Services (SCS).
  - c) Seed treatments and their benefits.