

**BINDURA UNIVERSITY OF SCIENCE EDUCATION**  
**FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE**

AGC 226

**Department of Crop Science**  
**BSc Agricultural Science (Honours) Part II Examination**  
**Seed Production and Technology**

**3 HOURS (100 Marks)**

**INSTRUCTIONS**

Answer any **FOUR** questions. Each question carries **25 marks**.

1. Discuss any five factors influencing seed longevity. **[25 marks]**
2. Discuss any five factors leading to the loss of genetic purity. **[25 marks]**
3. Describe the important steps for Tetrazolium test of soybean. **[25 marks]**
4. Compare and contrast open pollinated seed production with hybrid seed production. **[25 marks]**
5. a) Outline the importance of seed to humankind. **[5 marks]**  
b) Differentiate between the following:
  - i. recalcitrant and orthodox seed, **[4 marks]**
  - ii. seed vigour and seed viability, **[4 marks]**
  - iii. epigeal and hypogeal germination, **[4 marks]**
  - iv. endospermous and non-endospermous seeds and, **[4 marks]**
  - v. coleoptile and coleorhiza. **[4 marks]**
6. Discuss the principles and procedures of any five seed enhancement techniques. **[25 marks]**

**End of Exam Paper**