

**B.Sc. (Honours) Examination, 2017**  
**Semester–VI**  
**Botany**  
**Course : BBE-62 (Elective)**  
**(Seed Technology)**

**Time: 3 Hours**

**Full Marks: 40**

*Questions are of value as indicated in the margin.*

Answer **any four** questions.

1. Describe the different types of seeds based on morphology and structure. Distinguish between albuminous and exalbuminous seeds with examples. 7+3=10
  2. Describe the stages of development of a typical seed while still attached with the mother plant. How do viviparous and recalcitrant seeds deviate from typical seed? 7+3=10
  3. Define dormancy. Enumerate the different types of dormancy found in seeds. How can dormancy be broken artificially? 1+5+4=10
  4. How does phase I of seed germination differ from phase II? Discuss in detail the physiological changes that take place during seed germination. 3+7=10
  5. What is seed viability? Describe the methods for assessment of seed viability. What are the major reasons of seed viability loss? 2+ 5+ 3= 10
  6. Write short notes on: 2.5x4=10
    - (a) Seed deterioration
    - (b) Significance of seed dormancy
    - (c) Storage mobilization
    - (d) Role of ABA in seed development
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