

Roll No.

**Total No. of Pages : 02**

**Total No. of Questions : 09**

**B.Sc. Hons. (Agriculture) (Sem-4)**

# PRINCIPLES OF SEED TECHNOLOGY

**Subject Code : BSAG-406-19**

**M.Code : 79745**

**Date of Examination : 21-06-2023**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

## SECTION-A

1. **Write briefly :**
- a) Role of Seed Technology in seed production
  - b) Maintenance of genetic purity
  - c) Importance of field inspections in seed production
  - d) Duty and powers of seed inspector
  - e) Detection of genetically modified crops
  - f) Notification and release of a variety
  - g) Grow Out Test
  - h) Factors affecting seed marketing
  - i) Seed drying
  - j) Seed marketing.

### SECTION-B

2. Describe the role of seed technology in achieving the Green Revolution.
3. Describe the role of seed testing laboratories in ensuring quality seed availability to the farmers and seed producers.
4. Is there any possibility of Transgenic Contamination from Genetically Modified (GM) crops to non-GM crops? Explain in detail.
5. Write down the importance of seed treatment. Describe the type of diseases which can be controlled by seed treatment by citing examples.
6. How varietal identification can be done? Describe in detail.

### SECTION-C

7. Describe Foundation Seed. Write down the importance of Foundation Seed in production of Certified Seed. Can Certified Seed be produced directly from Breeder Seed? Write in detail about Indian generation system of seed production and its importance.
8. How will you proceed and succeed, if a new seed production programme has to be initiated in an area where already established seed producers are operating? Give your strategy in detail.
9. What is Seed Storage? Describe the importance of Seed Storage in a seed programme. What are the ideal conditions for good seed storage of field and vegetable crops? How seed storage can be done successfully in hot and humid climatic conditions with minimum available infrastructure?

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**