

Roll No.

Total No. of Pages : 02

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B.Sc- Honours (Agriculture) (Sem.-4)
PRINCIPLES OF SEED TECHNOLOGY

Subject Code : BSAG-406-19

M.Code : 79745

Date of Examination : 24-12-2022

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) Grow out test
 - b) Seed Testing for quality assessment
 - c) Central seed committee
 - d) Seed inspector
 - e) Nucleus Seed
 - f) Importance of Seed drying
 - g) Role of Seed Certification in seed production
 - h) Detection of Genetically Modified crops
 - i) Plant Breeder's Rights under PPV&FRA

SECTION-B

- Describe the factors responsible for deterioration of crop varieties. How these can be minimized during seed production to maintain the genetic purity?

3. Discuss in detail the 'Seed Control Order 1983'. Describe different provisions under seed control order for maintaining quality of the seed available in market.
4. Describe the role of isolation distance in seed production. Can space isolation be replaced by time isolation in a seed programme?
5. Explain transgene contamination in a non-GM crop. What are different safety measures to escape transgene contamination?
6. Describe different stages of seed storage. Discuss the factors affecting seed longevity - during storage.

SECTION-C

7. What is OECD? Give its significance in detail. Is India part of OECD? Describe the role of WTO and OECD in global seed marketing.
8. Write down in detail the different classes of seed in Indian generation system of seed production. How seed of different classes can be produced in self pollinated and cross pollinated crops?
9. Explain seed treatment. Write down different types of seed treatment and describe in detail the importance of various seed treatments in a seed programme.

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.