

Roll No.

Total No. of Pages : 02

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

Subject Code : BSAG-406-19

M.Code : 79745

Date of Examination : 13-07-22

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) Seed and Seed Technology
- b) Role of quality seed in agriculture
- c) Importance of isolation distance in seed production
- d) Seed Standards
- e) Seed production of hybrids
- f) Notification of a variety
- g) Foundation seed
- h) Importance of seed treatment
- i) Effect of moisture and temperature on seed storage
- j) Principles of Seed Technology

## SECTION-B

2. Describe the role of Seed technology in securing food supply.
3. What are the characters of good quality seed? Explain in detail.
4. “*Seed certification ensures availability of quality seed to farmers*”, Justify this statement.
5. Can electrophoresis be used for varietal identification? Explain in detail.
6. What is organic seed production? How it varies from normal seed production?

## SECTION-C

7. Describe breeder seed. Write down its importance in a seed production programme. Can Certified Seed be produced directly from Breeder Seed? Write in detail about Indian generation system of seed production and its importance.
8. Define the term ‘genetic purity’. How it is different from physical purity? Discuss in detail the steps involved to maintain the genetic purity during seed production.
9. Define and explain the term ‘Seed Marketing’. How demand of seed can be forecasted? Discuss in detail the various factors affecting seed marketing.

**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.**