

Roll No.

Total No. of Pages : 02

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

Subject Code : BSAG-406

M.Code : 72758

Date of Examination : 04-07-22

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 short notes on :

- a) Seed Standards
- b) Seed Testing for quality assessment
- c) Central Seed certification Board
- d) Field Inspection and field count
- e) Notification of a variety
- f) Stages of seed storage
- g) Importance of seed treatment
- h) Isolation distance
- i) Role of seed testing laboratories in ensuring seed quality
- j) Seed Testing Technology

SECTION-B

2. How genetic purity can be maintained during seed production? How it influences the seed quality?
3. Explain the certified seed production procedure for seed production in cross pollinated crops. How it differ from the self pollinated crops?
4. Explain the duties and powers of seed inspectors. Describe the penalties for different offences as per Seed Act.
5. Explain varietal identification through grow out test and electrophoresis.
6. Describe the seed testing procedures for assessment of seed quality. Write down the importance of seed germination test and seed vigour test in carry over seed.

SECTION-C

7. 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.
8. Describe Foundation Seed. Write down the importance of foundation seed in production of Certified Seed. Can Certified Seed be produced directly from Breeder Seed? Give details about Indian generation system of seed production.
9. Describe seed drying. Under what situations it becomes necessary to carry out artificial seed drying in a seed programme? How seed drying helps in maintaining the seed quality and managing the diseases and insect pest infestation during storage?

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.