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Total No. of Pages : 02

Total No. of Questions : 08

B.Sc. Hons. (Agriculture) (Sem.-4)
PRINCIPLES OF SEED TECHNOLOGY
Subject Code : BSAG-406-19
M.Code : 79745
Date of Examination : 05-07-21

Time : 2 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE question(s), each question carries 12 marks.

1. What is quality seed? How seed is different from grain? Briefly describe the factors affecting to the seed quality. What are the different roles of improved seed in enhancement of Indian agriculture? (12)

2. How is the flow of seed chain affected by middleman involved in the marketing? What are the different ways to promote the demand of seed and its sale? (12)

3. Comment on the statement :
 - a) Seed production technology applied in self-pollinated crops differs from cross pollinated crops. (3)
 - b) Cultivator must be advised not to save seed of his hybrid maize for raising the next crop. (3)
 - c) What are the recognized classes of pure seed? Describe, how the purity of seed is maintained both at production level and afterwards? (6)

4. Write the detailed note on the National Seed Corporation in India in bringing out its objectives. State the relation of NSC with various State Seed Corporations? (12)

5. What are the various steps in hybrid seed production of :
 - a) Sorghum (6)
 - b) Pearl millet (6)

6. What are the plant breeders' rights? Discuss the need for PBR in India. Briefly describe the conditions for the award of PBR protection, its scope, Breeders' Exemption and farmers' privilege. (12)

7. Briefly introduce the following along with its importance in PPVFRA : (2 × 6)
- a) GATT
 - b) TRIPS
 - c) NDUS
 - d) DUS test
 - e) MTA
 - f) WTO
8. What are the various stored grain pests infecting the seed during storage? Describe in detail the preventive and curative measures for the control of stored grain pests. What are the ideal conditions of storage and stores for food grains? (12)

Note: Any student found attempting answer sheet from any other person(s), using incriminating material or involved in any wrong activity reported by evaluator shall be treated under UMC provisions.

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