



K21P 0183

Reg. No. : .....

Name : .....

**IV Semester M.Sc. Degree (CBSS – Reg./Suppl.  
(Including Mercy Chance)/Imp.) Examination, April 2021  
(2014 Admission Onwards)**

**BOTANY**

**BOT4E05 : Seed Technology**

Time : 3 Hours

Max. Marks : 60

I. Write essays on **any two** of the following :

(2×8=16)

- 1) History of seed technology in India and the application of seed technology in agriculture.
- 2) Viability, seed germination and seedling vigour.
- 3) Morphology of angiosperm seeds.
- 4) Hybrid seed production.
- 5) Seed dormancy.
- 6) Seed certification.

II. Answer **any two** of the following :

(2×6=12)

- 7) a) ISTA  
b) ISTA rules  
c) Seed purity
- 8) a) Seed coat  
b) Anatomy of angiosperm seed  
c) Determination of seed viability
- 9) a) Germ plasm banks  
b) Improved crop varieties  
c) Reasons for the deterioration of improved varieties.
- 10) a) Factors affecting seed germination  
b) Maturation of seeds  
c) Reserve mobilization

P.T.O.



III. Answer **any six** of the following briefly :

(6×3=18)

- 11) Physical purity of seeds.
- 12) Methods to determine seed moisture content.
- 13) Germination tests.
- 14) Storage life of seeds.
- 15) Seed maturation.
- 16) Types of food reserves.
- 17) Control of seed dormancy.
- 18) Seed deterioration.
- 19) Minimum seed certification standards.
- 20) The Seed Act of India.
- 21) National Seed Programme.
- 22) National Seeds Corporation.

IV. Write short answers to the following questions (**any seven**) :

(7×2=14)

- 23) Mechanical seed divider.
  - 24) Biochemical determination of seed viability.
  - 25) Methods of overcoming seed dormancy.
  - 26) Aflatoxins
  - 27) Quarantine centres.
  - 28) Phytosanitary certificates.
  - 29) Seed adulterants.
  - 30) Physical purity.
  - 31) Seed harvesting.
  - 32) Quarantine.
  - 33) NBPGRI
  - 34) Seed industry
  - 35) Roll towel method
  - 36) Germ plasm.
-