



K23P 0154

Reg. No. :

Name :

IV Semester M.Sc. Degree (CBSS – Reg./Supple./Imp.)

Examination, April 2023

(2019 Admission Onwards)

BOTANY

BOT4 E 05 : Seed Technology

Time : 3 Hours

Max. Marks : 60

I. Answer **any two** of the following. (2×8=16)

1) Give an account on the objectives of ISTA.

OR

2) What is seed dormancy ? What are its various causes ?

3) Describe the different methods of seed storage.

OR

4) Describe the metabolic changes that occur during seed germination.

II. Answer **any two** of the following. (2×6=12)

5) a) Define seed as per Seed Act, 1966. 1

b) What are the characteristics of a good quality seed ? 2

c) Differentiate between seed and grain. 3

6) a) What is the purpose of seed certification ? 1

b) Briefly mention the eligibility for certification of crop varieties. 2

c) List the phases of seed certification. 3

7) a) Define seed production. 1

b) What is germplasm bank ? 2

c) Write a note on maintenance of inbred lines. 3

III. Answer **any six** of the following. (6×3=18)

8) Write a brief note on food reserves in seeds.

9) What are the factors affecting seed longevity in storage ?

P.T.O.



- 10) Briefly explain tetrazolium test.
- 11) Give a brief account on classification of seeds on seed coat character.
- 12) Write a note on factors affecting the longevity of seeds.
- 13) Give an account on the life span of seed.
- 14) Write a note on National Seed Corporation.
- 15) Give a brief account on the Seed Act of India, 1966.

IV. Answer **any seven** of the following.

(7×2=14)

- 16) Explain breeder seed and foundation seed.
- 17) What do you mean by genetic purity of seed ?
- 18) Why do the mature seeds of edible fruits not germinate inside the fruits ?
- 19) What is meant by physical purity of seed ?
- 20) If you are a farmer, would you buy certified seeds ? Why ?
- 21) What is grow out test ?
- 22) Write a note on sampling types.
- 23) What are TFL seeds ?
- 24) Write a note on secondary dormancy in seeds.
- 25) What is after-ripening ?

CENTRAL LIBRARY