

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 ?

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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 ?