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NY—189—2023

FACULTY OF SCIENCE

M.Sc. (Second Year) (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(CBCS/New Pattern)

BOTANY

Paper XIII

[Seed Technology–I (Principles of Seed Technology)]

(Saturday, 9-12-2023)

Time : 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—75

N.B. :- (i) All questions are compulsory.

(ii) Each question carries equal marks.

(iii) Draw neat and well labelled diagrams.

1. Describe in detail exomorphic characters of crop seeds. 15

Or

What is Parthenocarpy ? Describe in detail about its types and significance.

2. What is seed dormancy ? Describe in detail different types of seed dormancy. 15

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Or

What is seed vigour ? Describe in detail methods used to test seed vigour in seed laboratory.

3. Explain in detail about different biochemical tests used to test genetic purity of seeds. 15

Or

Describe in detail the methods of separation of pure seed from submitted seed sample by weight and number method.

4. Describe various causes of seed deterioration. 15

Or

Describe in detail physiological, biochemical and cytological changes in seed during seed storage.

5. Write short notes on the following (any *three*) : 15

- (a) Apomixis
- (b) seed viability
- (c) TZ test
- (d) Seed storage structure
- (e) Seed stacking.

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