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WT—189—2024

FACULTY OF SCIENCE AND TECHNOLOGY

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

NOVEMBER/DECEMBER, 2024

(New/CBCS Pattern)

BOTANY

Paper-XIII-C

[Seed Technology-I (Principle of seed tech.)]

(Saturday, 14-12-2024)

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

Time—3 Hours

Maximum Marks—75

N.B. :— (1) Attempt all questions.

(2) Draw neat and well labelled diagram wherever necessary.

1. Explain exomorphic characters of any *three* monocot seeds. 15

Or

Explain parthenocarpy with its types and importance.

2. Define seed dormancy. Describe the types of seed dormancy. 15

Or

Explain different seed vigour tests in seed laboratory.

3. Describe various biochemical methods used to test genetic purity of seed. 15

Or

Explain methods of separation of pure seed from submitted seed sample by weigh and number methods.

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4. Explain various causes of seed deterioration. 15

Or

Explain the physiological, biochemical and cytological changes in seed during seed storage.

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

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

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