

9. Describe the embryogenesis in typical dicotyledonous plants with suitable diagrams.

8



No. of Printed Pages : 04

Roll No.

32282

B. Sc. EXAMINATION, 2025

(Fourth Semester)

(Re-appear Only)

BOTANY

Paper-II

Plant Embryology

Time : 3 Hours]

[Maximum Marks : 40

Before answering the question-paper, candidates must ensure that they have been supplied with correct and complete question-paper. No complaint, in this regard will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting *two* questions from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

(Compulsory Question)

1. Answer briefly the following : **8×1=8**

- (a) Pollen grain
- (b) Protandry
- (c) Pollinium
- (d) Geitonogamy
- (e) Chalaza
- (f) Double fertilization
- (g) Coleorhiza
- (h) Fruit.

Unit I

2. Describe the structure, types and functions of tapetum. **8**

3. Discuss the process of pollen pistil interaction. **8**

4. Write notes on the following : **2×4=8**

- (a) Hydrophily
- (b) Ornithophily

5. Describe briefly the development of male gametophyte in angiosperms. **8**

Unit II

6. Write notes on the following : **2×4=8**

- (a) Structure of ovule
- (b) Megasporogenesis.

7. Describe the development and structure of monosporic female gametophyte in angiosperms. **8**

8. What is Endosperm ? Describe various types of endosperms found in angiosperms. **8**