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**VA—37—2024**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**B.Sc. (Second Year) (Fourth Semester) EXAMINATION**

**NOVEMBER/DECEMBER, 2024**

**(CBCS/New Pattern)**

**BOTANY**

**Paper—VIII**

**(Plant Embryology)**

**(Friday, 6-12-2024)**

**Time : 2.00 p.m. to 4.00 p.m.**

*Time—2 Hours*

*Maximum Marks—40*

**N.B. :-** (i) Attempt *all* questions.

(ii) Draw neat and well labelled diagrams wherever necessary.

(iii) *All* questions carry equal marks.

1. Describe T.S. of Anther and add a note on palynology. 15

*Or*

Describe in brief.

(a) Agents of pollination 8

(b) Self-pollination 7

P.T.O.

2. Define embryo. Describe in detail development of crucifer type of embryo.

15

*Or*

Describe in brief :

(a) Development of monosporic embryo sac. 8

(b) Structure of Anatroous ovule. 7

3. Attempt any *two* out of four : 10

(a) Contribution of P. Maheshwari in Embryology.

(b) Advantages of Cross Pollination

(c) Significance of double fertilization

(d) Seed dispersal.