

2022

5th Semester Examination

BOTANY (Honours)

Paper : C 11-T

Reproductive Biology of Angiosperms

[CBCS]

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

1. Answer any *five* of the following : 2×5=10

- (i) Define pollinia. Where does it occur?
- (ii) Give two examples of dispersal of seeds by animals.
- (iii) What is triple fusion? Mention its significance.
- (iv) What is gynandrophore? Where is it found?
- (v) What is herkogamy? Give example.
- (vi) Distinguish between anthophore and carpophore.
- (vii) What is polyembryony? Give example.
- (viii) What are polyads? Give example.

P.T.O.

Group - B

2. Answer any *four* of the following : $5 \times 4 = 20$

- (i) Discuss various types of embryo sac found in Angiosperms. 5
- (ii) Describe the contrivances of self pollination. 5
- (iii) Discuss the various methods to overcome self-incompatibility. 5
- (iv) What is cybrid? Discuss its significance. 2+3
- (v) Briefly discuss the genetic and molecular aspect of flower development. 2+3
- (vi) What is apomixis? Mention its importance. 2+3

Group - C

3. Answer any *one* question of the following : $10 \times 1 = 10$

- (i) Classify ovules based on the position of micropyle, chalaza, hilum and placenta. Briefly discuss the development of embryo in *Paeonia*. 5+5
- (ii) What is sporopollenin? Mention its chemical nature. Discuss the functions of callose wall. 2+3+5