

Bs/BCC-11 (T)

2024

(FYUGP)

(5th Semester)

BOTANY

(Major)

Paper Code : BCC-11 (T)

(Reproductive Biology of Angiosperms)

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Define microgametogenesis. Explain in detail the process of microgametogenesis in flowering plants. 2+13=15

OR

2. Write notes on the following : 7½×2=15

- (a) Flower as a modified shoot
(b) Pollen viability, storage and germination

3. What is megasporogenesis? With the help of suitable diagram, explain the various types of embryo sac. $2+13=15$

OR

4. Write notes on the following : $7\frac{1}{2}\times 2=15$

(a) Structure of carpel

(b) Types of ovule

5. Define pollination. What are the different types of pollination? Explain briefly the significance of pollination. $2+8+5=15$

OR

6. Write notes on the following : $7\frac{1}{2}\times 2=15$

(a) Pollen tube entry

(b) Double fertilization

7. Give an account on the structure and types of endosperm. 15

OR

8. Write notes on the following : $7\frac{1}{2}\times 2=15$

(a) Embryo-endosperm relation

(b) Structure and function of suspensor

(3)

9. Define self-incompatibility. Explain in detail the mechanism of self-incompatibility in plants. 2+13=15

OR

10. Write notes on the following : 5×3=15

- (a) Parasexual hybridization
- (b) Cybrids
- (c) *In-vitro* fertilization

★ ★ ★