



K25U 1306

Reg. No. :

Name :

**Second Semester B.Sc. Degree (C.B.C.S.S. – OBE – Supplementary/
Improvement) Examination, April 2025
(2019 to 2023 Admissions)**

**CORE COURSE IN BOTANY/PLANT SCIENCE
2B02BOT/PLS : Reproductive Botany**

Time : 3 Hours

Max. Marks : 40

Instruction : Draw diagrams *wherever* necessary.

SECTION – A

Objective type questions (Answer **all**)

1. Polyadelphous condition is seen in
a) Citrus b) Orchid c) Croton d) Ocimum
2. In a typical carpel, ovules along with placenta are developed on
a) Dorsal suture b) Ventral suture
c) Anterior suture d) Posterior suture
3. The anther wall with special spiral thickening is
a) Middle layers b) Epidermis c) Tapetum d) Endothecium
4. The region of origin of integuments of an ovule is called
a) Chalaza b) Funicle
c) Hypostase d) Placenta (4×1=4)

SECTION – B

Short essay questions (Answer **any eight**)

5. What is an acrocentric chromosome ?
6. What is meant by Epiphyllous buds ? Give example.
7. Explain twisted aestivation with an example.

P.T.O.

K25U 1306



8. Comment on tetrahedral spore tetrad.
9. Explain archesporial cells in detail.
10. What is monosporic embryosac ? Give example.
11. Explain chiropterophily with an example.
12. Comment on cellular endosperm.
13. What is meant by apospory ?
14. What is the significance of acetolysis ?
15. Define cypsela with an example.
16. Comment on epigeal germination. (8×2=16)

SECTION – C

Essay questions (Answer **any four**)

17. Explain various types of sexual reproduction.
18. Describe different types of symmetry of flowers.
19. Write short notes of L. S. of mature anther.
20. Give an account of economic importance of pollen.
21. Describe various types of multiple fruits.
22. Explain different types of schizocarpic fruits. (4×3=12)

SECTION – D

Long essay questions (Answer **any one**)

23. Explain various stages of cell cycle and the mitosis.
24. Describe various types of placentations with examples.
25. Write an essay on megasporogenesis and development of female gametophyte in angiosperms. (1×8=8)