K24U 1606

Reg. No.: .....

Name : .....

Second Semester B.Sc. Degree (CBCSS – OBE-Regular/Supplementary/ Improvement) Examination, April 2024
(2019 Admission Onwards)
CORE COURSE IN BOTANY/PLANT SCIENCE
2B02BOT/PLS : Reproductive Botany

Max. Marks : 40

Time : 3 Hours

Instruction : *Draw diagrams* ***wherever*** *necessary.*

SECTION – A

Objective Type Questions. Answer **all**.

1. Epicalyx is present in
   a) Cassia b) Hibiscus c) Canna d) Hyptis
2. A hypogynous flower has non-essential whorls situated
   a) Above the ovary b) Below the ovary
   c) Middle of the ovary d) Anywhere
3. The nutritive tissue within the anther is
   a) Endothecium b) Middle layers
   c) Nurse cells d) Tapetum
4. The stalk of the ovule is called
   a) Funiculus b) Calyculus
   c) Caruncle d) Chalaza

(4×1=4)

SECTION – B

Short essay questions. Answer **any eight.**

5. Explain metacentric chromosomes.
6. What is meant by radical buds ? Give example.
7. Define quincuncial aestivation with an example.
8. Write notes on decussate spore tetrad.

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9. What are the specific features of tapetal cells ?
10. Comment on tetrasporic embryo sac with an example.
11. Explain Ophiophily with an example.
12. Describe nuclear endosperm.
13. Define parthenocarpy with an example.
14. What is colpus ? What is its significance ?
15. Describe the Caryopsis fruit in brief.
16. What are ex-albuminous seeds ? Give example.

(8×2=16)

SECTION – C

Essay questions. Answer **any four.**

17. Explain various methods of Asexual reproduction.
18. Describe cohesion and adhesion of Androecium in angiosperms.
19. What are the adaptations of Anemophily ?
20. Give an account of morphology and structure of pollen grains.
21. Describe various types of Aggregate fruits with examples.
22. Comment on Dry-indehiscent fruits.

(4×3=12)

SECTION – D

Long essay questions. Answer **any one.**

23. Give a comparative account of mitosis and meiosis.
24. Describe various types of Racemose inflorescences.
25. Give an overview of structure and development of Dicot and Monocot embryos.

(1×8=8)