



K24U 4006

Reg. No. :

Name :

**First Semester B.Sc. Degree (C.B.C.S.S. – OBE-Supplementary/
Improvement) Examination, November 2024
(2019 to 2023 Admission)
CORE COURSE IN BOTANY/PLANT SCIENCE
1B01BOT/PLS : Cytology and Angiosperm Anatomy**

Time : 3 Hours

Max. Marks : 40

Instruction : Draw diagrams wherever specified.

PART – A

Objective type questions. Answer all.

(4×1=4)

1. Vascular bundles arranged in scattered manner in
 - a) Dicot stem
 - b) Monocot stem
 - c) Dicot root
 - d) Monocot root
2. Lateral roots are originated from
 - a) Endodermis
 - b) Nucleus
 - c) Pericycle
 - d) Epidermis
3. Raphides are
 - a) Calcium oxalate crystals
 - b) Starch grain
 - c) Calcium carbonate crystals
 - d) None of these
4. Sunken stomata present in
 - a) Hydrophytes
 - b) Halophytes
 - c) Xerophytes
 - d) Epiphytes

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K24U 4006



PART – B

Short essay questions. Answer any eight.

(8×2=16)

5. Write a note on Golgi bodies.
6. Describe quiescent center.
7. Enumerate the adaptation of Hydrophytes.
8. Distinguish between vascular cambium and cork cambium.
9. Differentiate dicot and monocot root.
10. Write an account on different types of stomata found in dicotyledons.
11. Discuss the components in xylem.
12. Write a note on Cystoliths.
13. Discuss the structure of Bordered pit.
14. Give an account on nucleolus.
15. Discuss the role of meristem in plant growth.
16. Explain the role of Lysosomes in a cell.

PART – C

Essay questions. Answer any four.

(4×3=12)

17. Distinguish between secondary growth in dicot stem and roots.
18. With neat labelled diagram explain the structure and functions of Mitochondria.
19. Write a note on simple permanent tissues.
20. Explain extra stelar secondary growth in plants.
21. Comment on the structure and functions of Plasma membrane.
22. Comment on abscission in leaves.

PART – D

Long essay questions. Answer any one.

(1×8=8)

23. Write a detailed account on the cell organelles in typical plant cell.
24. Explain in detail on the Anomalous secondary thickening of Bignonia stem with diagram.
25. Describe the characteristic features of meristematic tissues. Discuss various types of meristems and their functions.