



K24U 1607

Reg. No.:

Name :

Second Semester B.Sc. Degree (CBCSS – OBE-Regular/Supplementary/
Improvement) Examination, April 2024
(2019 Admission Onwards)

COMPLEMENTARY ELECTIVE COURSE IN BOTANY

2C02BOT : Bryology, Pteridology, Gymnosperm Biology, Palaeobotany,
Phytopathology and Angiosperm Embryology

Time : 3 Hours

Max. Marks : 40

Instruction : Draw diagrams wherever necessary.**SECTION – A**Objective type questions. Answer **all**.

1. In Riccia, the arrangement of sex organs is
 - a) Basipetal
 - b) Acropetal
 - c) Scattered
 - d) Mesopetal
2. Ploidy of Cycas endosperm is
 - a) Haploid
 - b) Diploid
 - c) Triploid
 - d) Tetraploid
3. The current Era according to geologic time scale is
 - a) Mesozoic
 - b) Cenozoic
 - c) Paleozoic
 - d) Pre-cambrian
4. Abnormal increase of size of cells in plant disease is
 - a) Hypertrophy
 - b) Hypoplasia
 - c) Hyperplasia
 - d) Hypotrophy

(4×1=4)

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**SECTION – B**Short essay questions. Answer **any eight**.

5. Mention 3 major classes of bryophytes with examples.
6. What are horn-worts ? Give examples.
7. Explain the photosynthetic zone of Riccia.
8. Describe the significance of rhizophore.
9. Write notes on transfusion tissue.
10. Comment on relationship between Gymnosperms with Angiosperms.
11. Explain the structure of megasporophyll of Cycas.
12. Define Compression fossils.
13. Describe fossil bryophytes.
14. Comment on Cycadofilicales.
15. Distinguish between monothealous and dithealous anthers.
16. Write notes on Filiform apparatus.

(8×2=16)

SECTION – CEssay questions. Answer **any four**.

17. Describe the economic importance of bryophytes.
18. Mention the fern characteristics of Cycas.
19. Elaborate the structure and reproduction of Rhynia.
20. Classify the plant diseases based on causative organisms.



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21. Describe various types of placentations.

22. Comment on helobial endosperm.

(4×3=12)

SECTION – DLong essay questions. Answer **any one**.

23. Explain the reproduction and life cycle of Selaginella.
24. Write an essay on Citrus canker and Root-knot of banana.
25. Describe various types of pollination mechanisms with suitable examples.

(1×8=8)