Reg. No. : ....

Name : ....

Second Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Supplementary/ Improvement) Examination, April 2025
(2019 to 2023 Admissions)
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**.   (4×1=4)

1. In Riccia, the antherozoid is
   a) Uniflagellate   b) Multiflagellate
   c) Biflagellate   d) Circumflagellate

2. A xerophytic character of Cycas is
   a) Coralloid root   b) Sunken stomata
   c) Compound leaf   d) Circinate vernation

3. The geological time scale, the Eras are further divided into
   a) Periods   b) Epochs   c) Ages   d) Eons

4. Abnormal increase of number of cells in plant disease is
   a) Hypertrophy   b) Hypoplasia   c) Hyperplasia   d) Hypotrophy

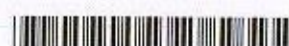## SECTION – B
(Short essay questions)

Answer **any eight**.   (8×2=16)

5. Why bryophytes are called amphibians of plant Kingdom ?

6. Write notes on economic importance of bryophytes.

7. Describe the mature sporophyte of Riccia.

8. Describe the significance of heterospory and seed habit.

P.T.O.

---

9. Write notes on coralloid root.

10. Comment on relationship between Gymnosperms and Pteridophytes.

11. Explain the structure of microsporophyll of Cycas.

12. Define Petrified fossils.

13. Describe fossil algae.

14. Comment on Lyginopteridaceae.

15. Distinguish between epigynous and perigynous flowers with examples.

16. Write notes on mesogamy and porogamy.

SECTION – C
(Essay questions)

Answer **any four**.   (4×3=12)

17. Describe the general characters of bryophytes.

18. Mention the economic importance of Gymnosperms.

19. Elaborate the characteristics of Lepidodendron.

20. Classify the plant diseases based on symptoms.

21. Describe the structure of T. S. of anther.

22. Comment on double fertilisation.

SECTION – D
(Long essay questions)

Answer **any one**.   (1×8=8)

23. Explain the economic importance of Pteridophytes.

24. Write an essay on Grey leaf-spot of coconut and quick wilt of pepper.

25. Describe various types of endosperms and its modifications.

———————————