



K26U 0840

Reg. No. : .....

Name : .....

Second Semester B.Sc. Degree (C.B.C.S.S.-OBE – Supplementary)  
Examination, April 2026  
(2020 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** specified.

PART – A

Objective type questions. Answer **all**.

(4×1=4)

1. Quick wilt of Pepper is caused by  
a) Fungus                      b) Virus                      c) Bacteria                      d) Mycoplasma
2. The fossil *Lepidodendron* belongs to the geological period  
a) Devonian                      b) Silurian                      c) Cretaceous                      d) Carboniferous
3. The plant *Riccia* is a  
a) Gametophyte                      b) Sporophyll                      c) Sporocarp                      d) Sporophyte
4. One of the following have monosporic embryosac  
a) *Allium*                      b) *Polygonum*                      c) *Piper*                      d) *Plumbago*

PART – B

Short Essay questions. Answer **any eight**.

(8×2=16)

5. Differentiate homospory and heterospory.
6. Write two economic importance of Bryophytes.
7. What is the stele present in *Selaginella* ? Draw the diagram.

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8. Differentiate smooth walled and tuberculate rhizoids.
9. Write four economic importances of Pteridophytes.
10. Differentiate impression and compression.
11. Write down the characters of *Cycas* megasporophyll.
12. What is nuclear endosperm ?
13. Write down the symptoms and causative organism of Blast disease of Paddy.
14. What is microsporogenesis ?
15. What is polyembryony ? Write down one significance.
16. Describe the typical structure of anther with a diagram.

PART – C

Essay questions. Answer **any four**.

(4×3=12)

17. Differentiate dicot and monocot embryo.
18. Describe the different eras of geological time scale.
19. Describe the structure of *Lepidodendron*.
20. Describe thallus anatomy of *Riccia* with a labeled diagram.
21. Flower is a modified shoot. Explain briefly.
22. Describe the anatomy of *Cycas* leaflet with a diagram.

PART – D

Long Essay Questions. Answer **any one**.

(1×8=8)

23. Heterospory leading to seed habit. Explain with example.
24. Explain the micro and megasporogenesis.
25. Explain symptoms, causative organism and control measures of any four-plant diseases.