



K22U 1280

Reg. No. : .....

Name : .....

II Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/  
Improvement) Examination, April 2022  
(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 specified.

## PART – A

Objective type questions. Answer **all**.

(4×1=4)

- This characterizes the presence of Selaginella
  - Ligule
  - Homospory
  - Flowers
  - None of these
- In Cycas, the spermatozoid is
  - Multiciliated
  - Uniflagellate
  - Non flagellate
  - Biflagellate
- It is the fossil vascular plant
  - Rhynia*
  - Funaria*
  - Riccia*
  - Cycas
- Citrus canker is a disease caused by \_\_\_\_\_
  - Virus
  - Nematode
  - Fungi
  - Bacterium

## PART – B

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

(8×2=16)

- What are the objectives of palaeobotany ?
- Enumerate the difference between algae and pteridophytes.

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- Write an account on transfusion tissue and its importance.
- What is geological time scale ?
- What is ligule and comment on its function.
- Discuss any four differences between Bryophytes and Pteridophytes.
- Give a general account on fossil algae.
- Distinguish between didynamous and tetradynamous stamens.
- Describe the anatomy of *Riccia* thallus.
- Explain the symptoms of Quick wilt of Pepper.
- Briefly state the xerophytic adaptations of gymnosperms.
- Explain the morphology of *Rhynia*.

## PART – C

Essay questions. Answer **any four**.

(4×3=12)

- Draw and label the monocot embryo.
- Briefly distinguish between pteridophytes with angiosperms.
- Comment on the anatomy of coralloid root.
- Discuss the symptoms, causative organism and control measures of Citrus canker.
- Briefly explain the structure of *Lepidodendron*.
- "Flower is a modified shoot", explain.

## PART – D

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

(1×8=8)

- Write an essay on the sexual reproduction in *Selaginella*.
- Discuss the events in microsporogenesis.
- With suitable diagrams explain the life cycle of *Riccia*.