



K23U 1980

Reg. No.: .....

Name : .....

II Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/  
Improvement) Examination, April 2023  
(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)

- Citrus canker is caused by  
a) Fungus                      b) Virus                      c) Bacteria                      d) Mycoplasma
- The fossil Rhynia belongs to the geological period.  
a) Devonian                      b) Silurian                      c) Cretaceous                      d) Ordovician
- The plant Selaginella is a  
a) Gametophyte                      b) Sporophyll                      c) Sporocarp                      d) Sporophyte
- A flower with half inferior ovary is called  
a) Hypogynous                      b) Perigynous                      c) Epigynous                      d) None of these

PART – B

Short Essay Questions. Answer **any eight**.

(8×2=16)

- What is heterospory ? Write an example.
- Describe the most common vegetative propagation in Riccia.
- Define a protosteles.

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- Write two similarities each between Gymnosperms and Angiosperms.
- Write four economic importances of Gymnosperms.
- Differentiate Paleobotany and Paleontology.
- Write down the characters of Cycas microsporophyll.
- What is Helobial endosperm ?
- Write down the symptoms and causative organism of Tapioca mosaic disease.
- What is megasporogenesis ?
- What is polyembryony ? Write down one significance.
- What is monosporic embryo sac ?

PART – C

Essay Questions. Answer **any four**.

(4×3=12)

- Differentiate microsporogenesis and microgametogenesis.
- Differentiate dicot and monocot embryo.
- Describe nuclear endosperm with a diagram.
- Describe briefly the habit of Lepidodendron.
- Describe the different period of geological time scale.
- Describe the thallus anatomy of Riccia with a diagram.

PART – D

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

(1×8=8)

- Explain the different types of embryo sac. Add a note on pollination and fertilization.
- Explain symptoms, causative organism and control measures of any four-plant diseases.
- Explain the formation of different types of fossils.