



K20U 0456

Reg. No. :

Name :



II Semester B.Sc. Degree (CBCSS (OBE) – Regular) Examination, April 2020
(2019 Admission)

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. The causative organism of leaf mosaic of Tapioca is
a) Bacteria b) Virus c) Fungus d) Mycoplasma
2. The leaf arrangement in *Cycas* is
a) Spiral b) Verticillate c) Superposed d) Polycyclic
3. The stele in the *Selaginella* stem is
a) Haplostele b) Actinostele c) Plectostele d) Mixed protostele
4. The group of plants referred as “amphibians of plant kingdom” is
a) Bryophytes b) Mosses c) Hornworts d) Liverworts

PART – B

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

(8×2=16)

5. What are pegged rhizoids ?
6. Discuss morphology of *Rhynia*.
7. Flower is a modified shoot. Explain.
8. Draw and label the sporophyte of *Riccia*.

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9. Explain the structure of *Cycas* rachis.
10. Distinguish between monocot embryo and dicot embryo.
11. Differentiate Bryophytes and Pteridophytes.
12. Describe the coralloid root of *Cycas*.
13. What is geological time scale ?
14. Enumerate the symptoms of Quick Wilt of Pepper.
15. Distinguish between actinomorphic flower and zygomorphic flower.
16. Why *Selaginella* is called resurrection plants ?

PART – C

Essay questions. Answer **any four** :

(4×3=12)

17. With suitable diagrams explain the structure of *Lepidodendron*.
18. Explain different types of endosperm found in Angiosperms.
19. Explain the anatomical structure of *Selaginella* stem.
20. Discuss the symptoms, causative organism and control measures of *Citrus canker*.
21. Describe the economic importance of Bryophytes.
22. Enumerate salient features of Gymnosperms.

PART – D

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

(1×8=8)

23. Write an essay on life cycle of *Cycas*.
 24. Write an essay on microsporogenesis. Explain it with diagrams.
 25. Write an essay on the fossil formation and its types.
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