

First Semester B.Sc. Degree Examination, October/November 2019

(CBCS Scheme)

Botany

Paper I — BIODIVERSITY (ALGAE, FUNGI AND ARCHEGONIATE)

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates :

- 1) Answer all Parts.
- 2) Draw neat labeled diagrams wherever necessary.

PART - A

I. Answer any **TEN** of the following :

(10 × 2 = 20)

1. What are elaters? Mention their function.
2. Mention the types of bacteria based on their shape.
3. What is Isomorphic alternation of generations? Give an example.
4. What is Ligule? Mention its function.
5. Mention the reserve food materials of Cyanophyceae and Rhodophyceae.
6. What are imperfect fungi? Give an example.
7. List out the non-living characters of viruses.
8. What is peristome? Mention its function.
9. Mention any two symptoms of leaf curl of papaya.
10. What is pavement tissue? Mention its function.
11. Differentiate between Protosteles and Siphonosteles.
12. What are mycorrhizae? Mention their types.



PART - B

- II. Explain any **SIX** of the following : (6 × 5 = 30)
13. Selaginella strobilus.
 14. Asexual reproduction in Penicillium.
 15. Economic importance of Lichens.
 16. Structure of Oedogonium Thallus.
 17. Bunchy top of Banana.
 18. T.S. of Marchantia Thallus.
 19. Structure of a Bacteriophage.
 20. T.S. of Corolloid root.

PART - C

- III. Answer any **FOUR** of the following : (4 × 10 = 40)
21. Explain the post-fertilization changes in Polysiphonia.
 22. With a neat labeled diagram describe the structure of Bacterial Cell.
 23. Describe the life cycle of Puccinia on primary host.
 24. Describe the antheridial and archegonial head of Funaria.
 25. Write note on :
 - (a) Tassel of Osmunda
 - (b) T.S. of Psilotum stem.
 26. Write a note on :
 - (a) Angiospermic characters of Gnetum
 - (b) V.S. of Cycas ovule.