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:

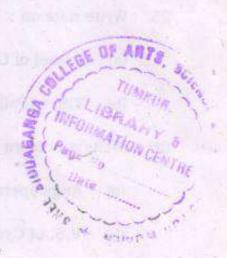
- 1) Answer all Parts.
- 2) Draw neat labeled diagrams wherever necessary.

PART - A

I. Answer any TEN of the following:

 $(10 \times 2 = 20)$

- 1. What are elaters? Mention their function.
- 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.
- What are imperfect fungi? Give an example.
- 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 Protostele and Siphonostele.
- 12. What are mycorrhizae? Mention their types.



PART - B

Explain any SIX of the following: II.

 $(6 \times 5 = 30)$

- Selaginella strobilus.
- Asexual reproduction in Penicillium.
- 15. Economic importance of Lichens.
- 16. Structure of Oedogonium Thallus.
- 17. Bunchy top of Banana.
- T.S. of Marchantia Thallus. 18.
- 19. Structure of a Bacteriophage.
- 20. T.S. of Corolloid root.

PART - C

Answer any **FOUR** of the following: $(4 \times 10 = 40)$ III.

- 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 :
 - Tassel of Osmunda
 - (b) T.S. of Psilotum stem.
- 26. Write a note on:
 - Angiospermic characters of Gnetum
 - (b) V.S. of Cycas ovule.

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