

Roll No. \_\_\_\_\_

\*[Total No. of Pages : 2

**SIS-N-060-B18**

**B.Sc. Ist Semester (CBCS) Degree Examination**

**BOTANY**

**Biodiversity, Microbes, Algae, Fungi and Archegoniate**

**Paper - CCBOT-1**

**(New)**

Time : 3 Hours

Maximum Marks : 80

***Instructions to candidates:***

- 1) Answer **ALL** the questions.
- 2) Draw diagrams wherever necessary.

**I.** Answer any **TEN** of the following in two or three sentences. **(2×10=20)**

- 1) Which group of plants commonly called as Amphibians of plant kingdom? Give an example.
- 2) What are elaters? Write their function.
- 3) What are rhizoids? Mention the types of rhizoids present in marchantia.
- 4) Draw and label the Structure of T4 Bacteriophage.
- 5) What is cryophytic algae? Give an example.
- 6) What is mycorrhiza? Write its importance.
- 7) What is transfusion tissue? Write its function.
- 8) Write any four distinguishing characters of fungi.
- 9) What is pavement tissue? Give its function.
- 10) Define siphonostele? Give an example.
11. What is foliose lichen? Give an example.
12. Write the difference between Gram+ve and Gram-ve Bacteria.

**II.** Answer any **FOUR** of the following in brief.

**(4×5=20)**

13. Describe the thallus structure of Vaucheria.
14. Write the economic importance of Sphagnum.
15. Explain conjugation in Bacteria.
16. Describe the life cycle of alternaria.
17. Describe the T.S of Selaginellastem.
18. Describe the V.S of cycas ovule.

**III.** Answer any **FOUR** of the following.

**(4×10=40)**

19. Explain the life cycle of Oedogonium.
  20. Write a note on:
    - a) Rhynia
    - b) Funaria capsule.
  21. Describe the male cone and female cone of Gnetum.
  22. Explain the economic importance of Algae.
  23. Describe the life cycle of Agaricus.
  24. Explain living and Non-living characters of viruses.
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