

**2 MJ 60303**

THREE YEAR B.Sc. (CBCS) DEGREE EXAMINATION, APRIL/MAY 2024.

SECOND SEMESTER

Botany (Major)

Course 3 : NON VASCULAR PLANTS (Algae, Fungi, Lichens and Bryophytes)

(w.e.f. 2023-24 Admitted Batch)

Time : Three hours

Maximum : 70 marks

(No additional sheet will be supplied)

---

PART A — (5 × 4 = 20 marks)

Answer any FIVE questions.

1. Cell structure of Algae
2. Pigments in Algae
3. Vaucheria Thallus
4. Cystocarp – Polysiphonia
5. Heterothallism
6. Parasexuality
7. Cleistothecium - penicillium
8. Basidiospores in puccinia
9. Anthoceros Antheridia
10. Funaria plant

PART B — (5 × 10 = 50 marks)

Answer ALL the questions.

11. Write the classification of algae according to F.E. Fritsch.  
Or
12. Explain about the ecological and economic importance of algae.
13. Describe the life cycle of spirogyra.  
Or
14. Explain about the culture and cultivation of chlorella.

15. Write the general characteristics of fungi.

Or

16. Write about ecological and economic importance of fungi.

17. Describe life cycle of Rhizopus.

Or

18. Describe the structure and reproduction of lichens.

19. Describe the internal structure of Marchantia Thallus T.S. with a labelled diagram.

Or

20. Describe the vertical section of Funaria capsule v.s. with a labelled diagram.

---