

**A-033**

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## **MSCBOT-502**

**Algae and Bryophytes**

**M.Sc. Botany (MSCBOT)**

**1st Semester Examination June, 2024**

**Time : 2 : 00 Hours]**

**[Max. Marks : 70**

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*Note :- This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

### **Section-A**

**(Long Answer Type Questions) 2×19=38**

*Note :- Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.*

1. Give a detailed account of classification proposed by F. E. Fritsch.
2. Give a detailed account on the thallus variation exhibited by members of Chlorophyceae.
3. Write critical notes on the following :
  - (a) Sporophyte of Anthoceros
  - (b) Life cycle of Funaria
4. Describe the development of Antheridium and Archegonium in Marchantia.
5. Write on the post fertilization changes in any two members of Rhodophyceae.

### **Section–B**

**(Short Answer Type Questions)      4×8=32**

**Note** :- Section 'B' contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. In what respect do bryophytes differ from algae and resemble with algae.
2. Give an account of classification of bryophytes in detail.
3. Use of Blue green Algae in Agriculture

4. Give explanatory notes on the following
  - (a) Diplontic life cycle
  - (b) Methods of reproduction in *Vaucheria*
5. Give the contribution of Indian Algologists.
6. Give detailed account of alternation of generation in *Anthoceros*.
7. Explain structure of capsule in *Polytrichum*.
8. Describe the salient features of class bryopsida.

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