

**S-48**

Total Pages : 3

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# **MSCBOT-502**

## **Algae and Bryophytes**

M.Sc. Botany (MSCBOT)-21

1st Semester Examination, 2022 (Dec.)

**Time : 2 Hours]**

**Max. Marks : 70**

**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.

### **SECTION-A**

#### **(Long Answer Type Questions)**

**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.

(2×19=38)

1. Describe the morphological and reproductive structures of *Marchantia* with suitable diagram. Also describe the life cycle of *Marchantia*.

2. Give an illustrated account of range of vegetative structure in algae.
3. Describe the morphology, anatomy and reproduction in the genus *Funaria* with suitable diagram.
4. Give an account of the habitat, structure and reproduction in *Laminaria*. Write also the economic importance of the genus.
5. Describe the various methods of reproduction in algae.

**SECTION-B**  
**(Short Answer Type Questions)**

**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. (4×8=32)

1. Briefly explain the General characteristics of Rhodophyceae.
2. Write a short note on cyanobacteria.
3. Write salient features of Takakiales with special emphasis on *Takakia*.
4. Describe the economic and ecological importance of Bryophytes.

5. Give a brief account of modern systems of classification of Bryophytes.
  6. Write a short note on Economic importance of Algae.
  7. Describe a brief history of algae. Describe the contribution of Indian algologists.
  8. Write in brief about algal bloom.
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