

**S-33**

Total Pages : 3

Roll No. ....

## **MBOT-502**

**Biology and Diversity of Algae**

M.Sc. Botany (MSCBOT)

1st Semester Examination, 2022 (Dec.)

**Time : 2 Hours]**

**[Max. Marks : 35**

**Note :** This paper is of Thirty Five (35) 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 Nine and Half (9½) marks each. Learners are required to answer any Two (02) questions only.

(2×9½=19)

1. Give the characteristic features of brown algae. Describe the life cycle of *Ectocarpus* giving suitable diagrams.

2. Give an illustrated account of thallus organisation in Algae.
3. Discuss the various methods of vegetative and asexual reproduction in algae.
4. Discuss the various type of life cycle pattern in the algae on the basis of algal type studied by you.
5. What are algae? Describe in detail about ecological and economic importance of Algae.

### **SECTION-B**

#### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Four (04) marks each. Learners are required to answer any Four (04) questions only. (4×4=16)

1. Write about the colonial or filamentous forms of algae.
2. General characteristics of Xanthophyta.
3. Marine Algae.
4. What are gemmae and bulbils?
5. Asexual reproduction in Volvox.

6. Parasitic and epiphytic Algae.
  7. Flagella in algae.
  8. Economic importance of diatoms.
-

