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**Roll No. -----**

## **MBOT-502**

**Biology and Diversity of Algae**

**M.Sc. Botany (MSCBOT-20)**

**1<sup>st</sup> Semester Examination June 2022**

**Time: 2 Hours**

**Max. Marks: 40**

**Note :** This paper is of Forty (40) 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 Ten (10) marks each. Learners are required to answer any two (02) questions only.

**[2 x 10 = 20]**

- Q.1.** Write an essay on distribution of Algae with examples.
- Q.2.** Describe the various life cycles in Algae with suitable examples.
- Q.3.** Describe in detail the structure of Chlamydomonas.

**P.T.O.**

- Q.4. Describe the general characters of Cyanophyta and its activities with other related groups.
- Q.5. Write an essay on the economic importance of algae.

### **Section – B**

#### **(Short-answer-type questions)**

Note: Section 'B' contains Eight (08) short-answer-type questions of Five (05) marks each. Learners are required to answer any Four (04) questions only.

[4 x 5 = 20]

- Q.1. How does Vaucheria differs from Chlorophyceae?
- Q.2. Write about Heterocysts.
- Q.3. Economic importance of Diatoms.
- Q.4. Unilocular Sporangium and Plurilocular Sporangium.
- Q.5. General characters of Phaeophyta.
- Q.6. What are phytoplanktons? Write briefly about them.
- Q.7. Parenchymatous and pseudoparenchymatous forms.
- Q.8. What are gemmae and bulbils?

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