

**Exam. Code : 210001**

**Subject Code : 3780**

**M.Sc. Botany 1<sup>st</sup> Semester**

**PHYCOLOGY**

**Paper—BOT-C518**

Time Allowed—Three Hours] [Maximum Marks—50

**Note :—** There are **FOUR** sections. Each section contains **TWO** questions. Candidates are required to attempt **FIVE** questions, selecting at least **ONE** question from each section. The **fifth** question may be attempted from any section.

**SECTION—A**

1. Discuss the following :
  - (a) Algal pigments
  - (b) Flagella in Algae. 10
2. Discuss the range of thallus organization in Algae. 10

**SECTION—B**

3. Discuss the reproductive diversity in Chlorophyta. 10
4. Describe the structure, branching pattern and method of reproduction in Cladophora. 10

**SECTION—C**

5. Give brief account of life history of Laminaria and explain the alternation of generation in this alga. 10
6. Discuss the post fertilization changes in Polysiphonia. 10

**SECTION—D**

7. Discuss the Rhythms and bioluminescence in Dinoflagellates. 10
8. Describe the structure, movements and reproduction in Oscillatoria. 10