

Exam. Code : 210001

Subject Code : 5374

M.Sc. (Botany) 1st Semester

PHYCOLOGY

Paper—BOT-C-518

Time Allowed—Three Hours] [Maximum Marks—50

SECTION—A

Note :— Attempt ALL questions. Each question carries 1 mark.

1. What do you understand by akinete ?
2. Define coenobium.
3. What is the meaning of aegagropilous ?
4. What are stipulodes ?
5. What are aplanospores ?
6. Define plurilocular sporangium.
7. Write the classification of *Laminaria*.
8. What is the function of cryptoblast in *Fucus* ?

SECTION—B

Note :— Attempt any SEVEN questions. Each question carries 3 marks.

1. Write a short note on algal pigments.
2. Discuss the reproductive diversity in algae.

3. Write a brief note on method of reproduction in *Macrocystis*.
4. What is the importance of reserve food materials in the classification of algae ?
5. Explain the structure of trichome in *Nostoc*.
6. Differentiate between macrandrous and nannandrous species of *Oedogonium*.
7. Write a short note on methods of perennation in *Fritschiella*.
8. Describe the process of vegetative reproduction in *Chara*.
9. Write a short note on fertilization in *Vaucheria*.
10. Discuss some salient features of *Ectocarpus*.

SECTION—C

Note :— Attempt any **THREE** questions. Each question carries 7 marks.

1. Discuss in detail the origin and evolution of sex in algae.
2. Explain the economic importance of algae.
3. Describe the method of asexual reproduction in *Volvox*.
4. Write a detailed account of life cycle and alternation of generation in *Cladophora*.
5. Discuss the methods of conjugation in *Zygnema*.