

Exam. Code : 210001

Subject Code : 4844

M.Sc. (Botany) Semester—1

ALGAE

Paper—BOT-C-511

Time Allowed—3 Hours]

[Maximum Marks—50

Note :— Attempt 11 questions in all from Sections A, B and C as per instructions given in each section. Draw diagrams/illustrations wherever necessary.

SECTION—A

Note :— Attempt ONE question from this section containing 8 short type items. Each part carries 1 mark and answer to each part should not exceed 4 lines.

1. (a) What are unilocular sporangia ? Where are these present ?
- (b) What are epipsammic and epipellic algae ?
- (c) What is evection ? Give example.
- (d) What are cap cells ? Give example.
- (e) What is red rust of Tea ? Name the causal organism.
- (f) Differentiate a trichome and a filament.
- (g) What is chantransia stage ?
- (h) Write two distinct features of *Euglena*. 1×8=8

SECTION—B

Note :— Attempt SEVEN questions from this section. Each question carries 3 marks and answer to each part should not exceed TWO pages.

2. Give an account of thallus structure of *Dictyota*.
3. Write a note on algal flagella.
4. Compare the thallus structure and reproduction in *Scytonema* and *Stigonema*.
5. What are the main features taken for the recent classification of algae ?
6. Describe the process of sexual reproduction in *Vaucheria*.
7. Describe the thallus structure of *Cutleria*.
8. Draw outlines to show the stages of life cycle of *Laminaria*.
9. Describe thallus structure and reproduction in *Zygnema*.
10. Can algae be used as indicators of water pollution ? Discuss. http://www.gnduonline.com
11. Write a note on *Cryptomonas*. 3×7=21

SECTION—C

Note :— Attempt THREE questions from this section. Each question carries 7 marks and answer to each part should not exceed FOUR pages.

12. Give an account of range of photosynthetic apparatus and pigments among algae.

13. Describe the sex organs and sexual reproduction in *Fucus*.
14. Describe the post fertilization stages in a poysiphonus red algae.
15. Give an account of fungal and bacterial pathogens of algae.
16. Describe the formation of daughter colonies in a coenobial algae through asexual reproduction. $7 \times 3 = 21$

<http://www.gnduonline.com>

Whatsapp @ 9300930012

Your old paper & get 10/-

पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से