Exam. Code : 210001 Subject Code: 4844

# M.Sc. (Botany) Semester—I

#### 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.
- What are unilocular sporangia? Where are these present ? 200 Par along the sends no 01
  - What are epipsammic and epipelic algae? (b)
  - What is evection? Give example. (c)
  - What are cap cells? Give example. (d)
  - What is red rust of Tea? Name the causal organism. (e)
  - (f) Differentiate a trichome and a filament.
  - (g) What is chantransia stage?
- (h) Write two distinct features of Euglena.  $1 \times 8 = 8$

2396(2116)/RRA-8080

(Contd.)

### SECTION—B

- Note: Attempt SEVEN questions from this section. Each question carries 3 marks and answer to each part should not exceed TWO pages.
- Give an account of thallus structure of Dictyota. 2.
- Write a note on algal flagella. 3.
- Compare the thalius structure and reproduction in 4. Scytonema and Stigonema.
- What are the main features taken for the recent classification 5 of algae?
- Describe the process of sexual reproduction in Vaucheria. 6.
- Describe the thallus structure of Cutleria. 7.
- Draw outlines to show the stages of life cycle of Laminaria. 8.
- Describe thallus structure and reproduction in *Zygnema*. 9.
- 10. Can algae be used as indicators of water pollution? Discuss.
- 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.

2396(2116)/RRA-8080

(Contd.)

## a2zpapers.com

- 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.  $7\times3=21$

www.a2zpapers.com