



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc., DEGREE EXAMINATION – PLANT BIOLOGY & BIOTECH.

FIRST SEMESTER – NOVEMBER 2013

PB 1508 – ALGOLOGY & BRYOLOGY

Date : 12/11/2013
Time : 1:00 - 4:00

Dept. No.

Max. : 100 Marks

PART –A

ANSWER THE FOLLOWING, EACH WITHIN 50 WORDS ONLY:

(10 x 2 = 20)

1. Write down the systematic position of *Chara*.
2. Distinguish between Coenobium and Coenocytes.
3. Comment on Fossil algae.
4. What is Diatomite?
5. Write note on Carpospores.
6. What are Hormogonia?
7. Why Bryophytes are called the amphibians of plant kingdom?
8. Define Apogamy.
9. What is the function of peristome?
10. What are Pseudo Elaters?

PART –B

ANSWER THE FOLLOWING, EACH WITHIN 500 WORDS;

DRAW DIAGRAMS WHEREVER NECESSARY:

(5 x 7 = 35)

11. a) Describe any one life cycle pattern in Algae.

(OR)

- b) Write short notes on the thallus organization in Algae.

12. a) Describe the cell structure of *Anabaena*.

(OR)

- b) Describe the sexual reproduction of *Polysiphonia*.

13. a) Give an account of algae in biofertilizers.

(OR)

- b) *Spirulina* as single cell protein – discuss.

14. a) Enumerate the salient feature of Hepaticopsida.

(OR)

- b) Write notes on the economic importance of Bryophytes.

15. a) Describe the internal structure of *Marchantia* .

(OR)

- b) Give an account on the structure of *Funaria* sporophytes

PART –C

ANSWER ANY THREE OF THE FOLLOWING, EACH WITHIN 1200 WORDS;

DRAW DIAGRAMS WHEREVER NECESSARY:

(3 x 15 = 45)

16. Enumerate the salient features of algal divisions.
17. Describe the life cycle of *Gracilaria*.
18. Explain isolation, mass cultivation and field application of Blue – Green algae.
19. Write an account on the various modes of reproduction in Bryophytes.
20. Describe the alternation of generations in the life cycle of *Anthoceros*.

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