

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**



**B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY**

**FIRST SEMESTER – NOVEMBER 2017**

**PB 1508 – ALGOLOGY AND BRYOLOGY**

Date: 14-11-2017

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

**PART - A**

**ANSWER THE FOLLOWING, EACH WITHIN 50 WORDS.**

**(10 x 2 = 20 Marks)**

1. What is Floridian starch?
2. Define isokont.
3. Define heterocyst?
4. How does *Volvox* reproduce?
5. What is SCP?
6. Define Biofuel.
7. What are elaters?
8. Define protonema.
9. What is alternation of generation?
10. Define peristome.

**PART – B**

**ANSWER THE FOLLOWING, EACH WITHIN 500 WORDS. DRAW DIAGRAMS AND FLOWCHARTS WHEREVER NECESSARY.**

**(5 X 7 = 35 Marks)**

11. (a) Give a brief note on range of thallus organization in algae.

(Or)

- (b) Write short notes on pigmentation in algae.

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

(Or)

- (b) Explain the thallus structure of *Sargassum*.

13. (a) What are the factors affecting biomass production of algae

(Or)

- (b) Write short notes on mass cultivation of Blue green algae.

14. (a) Describe the vegetative reproduction in Bryophytes

(Or)

(b) Write the economic importance of Bryophytes.

15. (a) Write about the gametophyte of *Marchantia*.

(Or)

(b) Describe the sporophyte of *Anthoceros*.

### PART - C

**ANSWER ANY THREE OF THE FOLLOWING, EACH WITHIN 1200 WORDS. DRAW DIAGRAMS AND FLOWCHARTS WHEREVER NECESSARY. (3 X 15 = 45 Marks)**

16. Give an outline of classification of algae by Harold C Bold.

17. Explain the sexual reproduction in *Gracilaria*.

18. Describe the economic importance of algae.

19. List out the general characteristic features of the three groups of Bryophytes you have studied

20. Describe the sporophyte of *Funaria*.

\*\*\*\*\*