LOYOLA COLLEGE (AUTONOMOUS), CHENNAI - 600 034



B.Sc. DEGREE EXAMINATION - PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

FIRST SEMESTER - APRIL 2016

PB 1508 - ALGOLOGY AND BRYOLOGY

Date: 02-05-2016	Dept. No.	Max. : 100 Marks
Time: 01:00 04:00	l	

PART-A

Answer the following, each within 50 words only

 $(10 \times 2 = 20)$

- 1. Mention the reserve food of brown algae and red algae.
- 2. Write on fossil algae
- 3. What are autospores?
- 4. Define heterotrichy.
- 5. Mention the source and uses of carageenin.
- 6. What are algal biofuel?
- 7. Write any two economic aspects of Bryophytes.
- 8. What is a gametophore?
- 9. Comment on apophysis.
- 10. What are scales?

PART-B

Answer the following, each within 500 words. Draw diagrams wherever necessary. $(5 \times 7 = 35)$

11. a. Briefly describe the range of thallus organisation in algae.

(or)

- b. What are the various means of vegetative reproduction in algae?
- 12. a. Describe the structure of *Anabaena*.

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- b. Describe the carposporophyte and tetrasporophyte of *Polysiphonia*.
- 13. a. Write on the production and harvesting of algal biomass.

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- b. What are the steps for the cultivation of cyanobacterial inoculants and its response to crops?
- 14. a. Mention the various modes of vegetative reproduction in bryophytes.

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- b. Give an account on fossil bryophytes.
- 15. a Describe the internal structure of the thallus of *Marchantia*.

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b. Describe the antheridial branch of Funaria

PART-C

Answer any THREE of the following, each within 1200 words. Draw diagrams wherever necessary.

(3x15 = 45)

- 16. What are the various life cycle patterns in algae?
- 17. Describe the habit and sex organs of *Chara*.
- 18. Write short notes on the following:
 - a. algae as food b. agar- agar c. nutritive value of SCP d .diatomite e. algae as medicines.
- 19. Bring out the characteristics of the various classes of bryophytes.
- 20. Describe the Life cycle of Anthoceros.

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