

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



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

**FIRST SEMESTER – NOVEMBER 2017**

**17/16UPB1MC01 – ALGAE AND BRYOPHYTES**

Date: 06-11-2017

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

**PART - A**

ANSWER THE FOLLOWING, EACH WITHIN 50 WORDS.

(10X2= 20 Marks)

1. Mention the different types of reserve food materials of Algae.
2. What are Fossil Algae? Give example.
3. What is coenobium?
4. Write about the Unilocular Sporangium of Ectocarpus.
5. What are Cyanobacteria?
6. Write the uses and sources of Agar- Agar.
7. Write about the Habitat of Bryophytes
8. Mention any 2 salient features of Bryophytes.
9. What are Liverworts? Give Example
10. Modes of Vegetative propagation in *Funaria* – Comment.

**PART – B**

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

(5X7= 35 Marks)

11. a) Write a note on Pigmentation in Algae.

(OR)

- b) Write about the salient features of Rhodophyceae

12. a) Comment on Sex Organs of *Chara*

(OR)

- b) Write an account of the thallus of *Sargassum*.

13. a) *Spirulina* – a single celled Protein – Discuss.

(OR)

- b) Briefly write about isolation, purification and mass cultivation of Cyanobacteria.

(OR)

14. a) Bring about the Salient features of Anthocerotopsida

(OR)

- b) Write a short note on Economic importance of Bryophytes.

15. a) Write about the Vegetative propagation of *Marchantia*.

(OR)

- b) Explain the structure of *Funaria* Capsule.

PART – C

ANSWER ANY THREE OF THE FOLLOWING, EACH WITHIN 1200 WORDS. DRAW DIAGRAMS AND FLOWCHARTS WHEREVER NECESSARY. (3 X15= 45 Marks)

16. Bring out the Classification of Algae by Fritsch.
17. Explain the Life Cycle of *Gracilaria*.
18. Write an essay on the Economic importance of Algae.
19. Explain the Life cycle pattern of Bryophytes.
20. Explain the life- cycle of *Anthoceros*.

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