



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIRST SEMESTER – NOVEMBER 2019

16/17/18UPB1MC01 / PB 1508 – ALGAE AND BRYOPHYTES

Date: 30-10-2019

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART-A

Answer the following, each within 50 words

(10 x 2 = 20 Marks)

1. Write a note on hormogonia?
2. List out the algal pigments.
3. What is plurilocular sporangium?
4. What is globule?
5. Comment on agar agar.
6. What is Single Cell Protein?
7. What are fossil bryophytes?
8. Mention any two features of bryopsida.
9. What are liverworts?
10. Comment on gemma cup.

PART- B

Answer the following, each within 500 words. Draw Diagrams whenever necessary

(5 x 7 = 35 Marks)

11. (a) Write down the salient features of Phaeophyceae.
(OR)
(b) Explain in brief the vegetative reproduction in algae.
12. (a) Give a general account on the thallus structure in *Chara*.
(OR)
(b) Describe the sexual reproduction in *Sargassum*.
13. (a) Discuss in brief the production and harvesting of algal biomass.
(OR)
(b) Comment on the commercial products of algae.
14. (a) Explain the salient features of class Hepaticopsida.
(OR)
(b) Write a brief note on the vegetative reproduction in bryophytes.
15. (a) Explain the sexual reproduction in *Funaria*.
(OR)
(b) Describe the life cycle of *Anthoceros*.

PART-C

Answer any three of the following, each within 1200 words. Draw Diagrams whenever necessary.

(3 x 15 = 45 Marks)

16. Briefly explain the classification of algae by F.E.Fritsch.
17. Write a brief note on life cycle of *Ectocarpus*.
18. Describe the economic importance of algae.
19. Explain in detail the classification of bryophytes by Rothmoler (1951).
20. Describe the vegetative and reproductive structure in *Marchantia*.
