

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



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

FIRST SEMESTER – APRIL 2019

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

Date: 03-04-2019
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

PART- A

Answer the following, each within 50 words.

(10 x 2=20marks)

1. Write a note on hormogonium.
2. Define phycoerythrin.
3. What is cryptostomata?
4. Define globule.
5. What is chromatophores?
6. What is agar agar?
7. Define Columella.
8. Write any two uses of bryophytes.
9. What are liverworts?
10. Comment on gemma.

PART- B

Answer the following, each within 500 words. Draw diagrams wherever necessary.

(5 x 7=35 marks)

11. (a) Write short notes on the characteristic features of class chlorophyceae.
(OR)
(b) Give a general account on reproduction in algae.
12. (a) Explain in brief about the thallus structure of *Volvox*.
(OR)
(b) Describe the vegetative structure in *Ectocarpus*.
13. (a) Discuss in brief about SCP.
(OR)
(b) Explain the role of algae in agriculture.
14. (a) List the characteristics of Hepaticopsida.
(OR)
(b) Write a brief note on economic importance of bryophytes.
15. (a) Explain the gametophytic structure of *Funaria* with a neat diagram.
(OR)
(b) Describe the life cycle of *Anthoceros*.

PART- C

Answer any three of the following, each within 1200 words. Draw diagrams wherever necessary.
(3 x 15=45 marks)

16. Explain the classification of algae by F.E.Fritsch.
17. Write a detailed notes on the thallus structure and sexual reproduction in *Gracilaria*.
18. Highlight the commercial value and importance of algae.
19. Explain in detail about the structure of antheridium, archegonium and sporophyte in *Funaria*.
20. Describe the structure and lifecycle of *Marchantia*.
