LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034	
Sc. DEGREE EXAMINATION -PLANT BIOLOGY AND PLANT BIOTECHNOLOGY	
FIRST SEMESTER – APRIL 2018	
17/16UPB1MC01- ALGAE AND BRYOPHYTES	
Date: 25-04-2018 Dept. No.	Max. : 100 Marks
PARTA	
Answer the following, each within 50 words:	(10 x 2 = 20 Marks)
1. What is phycoerthrin?	
2. Define diplontic life cycle.	
3. Define globule.	
4. What is raphe?	
5. Define SCP.	
6. What is carrageenan?	
7. Write any four characters of bryophytes.	
8. What are liverworts?	
9. Define fossil bryophytes	
10 What is pseudoelaters?	
PART B	
Answer the following, each within 500 words. Draw diagrams and flowch	
11(a) Explain the various types of pigments in major divisions of algae.	(5 x 7 = 35 Marks)
(OR)	
(b) Write a brief note on fossil algae	
12(a) Describe the vegetative structure of <i>Volvox</i> .	
(OR)	
(b) Explain the reproduction in diatoms.	
13(a) Algae are useful to mankind- Justify. (OR)	
(b) Explain the mass cultivation of blue-green algae.	

14(a) Describe the salient features of Hepaticopsida.

(OR)

(b) Write notes on the Rothmalars classification of bryophytes.

15(a) Explain the thallus structure and habitat of *Marchantia*.

(**OR**)

(b) Explain the internal and external structure of *Funaria* capsule.

PART C

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

16. Discuss the salient features of Fritsch classification of algae.

17. Describe the thallus structure and sexual reproduction in *Gracilaria*.

18. Discuss the economic importance and agriculture uses of algae.

19. Write an essay on the vegetative and reproductive structures in Funaria.

20. Explain the structure and development of sex organs in Anthoceros.
