



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIRST SEMESTER – APRIL 2017

PB 1505 / PB 1502 - PLANT DIVERSITY - I (ALGOLOGY, MYCOLOGY, BRYOLOGY)

Date: 26-04-2017
09:00-12:00

Dept. No.

Max. : 100 Marks

Part A

Answer the following, each within 50 words.

(10 x 2 = 20 marks)

1. Define haplontic life cycle.
2. What are akinetes?
3. What is heterocyst?
4. Define diatomaceous earth
5. What is a parasite?
6. Distinguish between homothallic and heterothallic fungus.
7. What is the other name for *Rhizopus*? Why?
8. What is conidium?
9. What is the role of elaters?
10. Define peristome

Part B

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

(5 X 7 = 35 marks)

11. a) Give the distinguishing characters of Cyanophyceae.

(Or)

b) Explain the asexual reproduction in algae.

12. a) Describe the cell structure of *Anabaena*.

(Or)

b) Write the importance of biofertilizers.

13. a) Describe the salient features of Zygomycetes.

(Or)

b) Give a brief note on nutrition in fungi.

14. a) Write short notes on yeast cloning.

(Or)

b) Describe the method of asexual reproduction in *Albugo*.

15. a) Describe the thallus of *Anthoceros*

(Or)

b) Comment briefly on the morphological nature of the male and female sex organs of *Marchantia*.

Part C

Answer any three of the following, each within 1200 words. Draw diagrams and flow charts wherever necessary: **(3 X 15 = 45 marks)**

16. Describe the life cycle patterns seen in algae.

17. Write an essay on economic importance of algae.

18. Describe the sexual reproduction in fungi.

19. Describe the life cycle of *Puccinia*.

20. Explain the sporophyte of *Funaria*.
