

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



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

FIRST SEMESTER – NOVEMBER 2017

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

Date: 14-11-2017

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

PART - A

ANSWER THE FOLLOWING, EACH WITHIN 50 WORDS.

(10 X 2 =20 MARKS)

1. Define hormogonia.
2. What are akinetes?
3. Define coenocytes?
4. What is plurilocular sporangium?
5. Define saprophyte
6. What is ascocarp?
7. Write the symptoms of red rot of sugarcane.
8. What is secondary mycelium?
9. Define elaters.
10. What are alternation of generation?

PART - B

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

(5 X 7 = 35 Marks)

11. a. Enumerate the salient features of Cyanophyceae

(Or)

- b. Describe the sexual reproduction in algae

12. a. Describe the vegetative structure and reproduction in *Anabaena*

(Or)

- b. Write the advantages of biofertilizers.

13. a. List out the salient features of Basidiomycotina.

(Or)

b. Describe the fruit bodies of Ascomycetees.

14. a. Illustrate the asexual reproduction in Albugo.

(Or)

b. Explain the disease cycle of red rot of sugarcane.

15. a. Write the distinguish features of Bryophytes.

(Or)

b. Describe the gametophyte of *Anthoceros*.

PART – C

ANSWER ANY THREE OF THE THE FOLLOWING, EACH WITHIN 1200 WORDS. DRAW DIAGRAMS AND FLOWCHARTS WHEREVER NECESSARY. (3 X 15 = 45 Marks)

16. Give an outline of classification of algae by Harold C Bold

17. Describe the life cycle of *Polysiphonia*

18. Explain the mode nutrition in fungi

19. Describe the sexual reproduction in *Polyporus*.

20. Explain the sporophyte of *Marchantia*.
