LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIRST SEMESTER – **APRIL 2018**

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

Date: 27-04-2018 Dept. No. Max. : 100 Marks

Time: 01:00-04:00

PART A

Answer the following, each within 50 words. **(10 x 2 =20marks)**

1. Define fragmentation.
2. What are isogamy?
3. Define coenocytes?
4. What is agar agar?
5. Define obligate parasite.
6. What are heterotrophs?
7. Comment on wood roting fungi.
8. What is secondary mycelium?
9. What are gemmae?
10. Define protonema.

PART B

Answer the following each within 500 words. Draw diagrams and flowcharts wherever necessary. **(5 X 7 = 35marks)**

11. a. Enumerate the salient features of Chlorophyceae.

(Or)

b. Describe the asexual reproduction in algae.

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

(Or)

b. What are biofertilizers? Explain with suitable examples and list its advantages.

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

(Or)

b. Describe the fruit bodies of Basidiomycetes.

14. a. Illustrate the asexual reproduction in *Rhizopus*.

(Or)

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

15. a. Write the salient features of Bryophytes.

(Or)

b. Describe the archegonium of *Marchantia*.

PART C

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

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

17. Describe the life cycle of *Volvox*.

18. Explain in detail about the mode nutrition in fungi.

19. Explain the life cycle of *Puccinia*.

20. Describe the sporophyte of *Funaria*.

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