



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY & PLANT BIO-TECH.**

**FIRST SEMESTER – APRIL 2013**

**PB 1505/PB 1502/PB 1500 - PLANT DIVERSITY - I (ALGOLOGY, MYCOLOGY, BRYOLOGY)**

Date: 09/05/2013  
Time: 1:00 - 4:00

Dept. No.

Max. : 100 Marks

**PART - A**

**Answer the following each within 50 words only:**

**(10 x 2 = 20 marks)**

1. Enumerate the pigments in algae.
2. Differentiate between aplanospore and akinetes.
3. What is meant by trichoblasts?
4. What are Coenocytes? Give example
5. List the specialized somatic structures of fungal hyphae.
6. What are obligate biotrophs? Give example.
7. Explain the mode of asexual reproduction in *Saccharomyces*.
8. What is an apothecium?
9. What is gametophore?
10. Explain apospory? Give example.

**PART - B**

**Answer the following each answer within 500 words:**

**(5 x 7 = 35 marks)**

**Draw diagrams wherever necessary:**

11. a. Enlist the important characteristic features of algae.  
(OR)  
b. Explain the method of asexual reproduction in algae.
12. a. Describe the thallus structure in *Polysiphonia*.  
(OR)  
b. Write short notes on algal biofertilisers.
13. a. Classify the types of fruiting bodies in fungi.  
(OR)  
b. Describe the fungal cell structure.
14. a. Describe the reproduction in *Polyporus*.  
(OR)  
b. Give the types of lichen and explain the internal structure of a lichen thallus.
15. a. Give an account of the sex organs in bryophytes.  
(OR)  
b. Write the schematic life cycle in *Marchantia*.

**PART - C**

**Answer any three of the following each with 1200 words:**

**(3 x 15 = 45 marks)**

**Draw diagrams wherever necessary:**

16. Give an account of life cycle patterns in algae.
17. Describe the life cycle of *Ectocarpus*.
18. Enumerate the salient features of fungal classes proposed by Alexopolus.
19. Write an account of the economic importance of fungi.
20. Draw and explain the sporophyte in *Funaria*.

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