



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

**B.Sc., DEGREE EXAMINATION – PLANT BIOLOGY & BIOTECH.**

**FIRST SEMESTER – NOVEMBER 2013**

**PB 1505/PB 1502/PB 1500 – PLANT DIVERSITY-I (ALCOLOGY, MYCOLOGY & BRYOLOGY)**

Date : 12/11/2013

Dept. No.

Max. : 100 Marks

Time : 1:00 - 4:00

**PART – A**

**ANSWER THE FOLLOWING, EACH WITHIN 50 WORDS ONLY:**

**(10 x 2 = 20)**

01. What are Phycobilins?
02. What is Coenobium?
03. Comment on Biofertilizers.
04. Write notes on Carpospores.
05. What is a Basidiocarp?
06. Distinguish between Whiplash and Tinsel flagella.
07. What are Obligate parasites?
08. Define Lichens.
09. List any four features of Hepaticopsida.
10. What are Gemmae?

**PART – B**

**ANSWER THE FOLLOWING, EACH WITHIN 500 WORDS;**

**DRAW DIAGRAMS WHEREVER NECESSARY:**

**(5 x 7 = 35)**

11. a) Describe any one method of the life cycle pattern in Algae.  
(OR)  
b) Write short notes on the thallus organization in Algae.
12. a) Enumerate the salient features of Cyanophyceae.  
(OR)  
b) Describe the sexual reproduction of *Polysiphonia*.
13. a) Bring out different groups of Fungi based on mode of nutrition.  
(OR)  
b) Describe the asexual reproduction in Fungi.
14. a) Describe the fruiting body of *Polyporus* with suitable diagram.  
(OR)  
b) Enumerate the economic importance of Lichens.
15. a) Describe the external and internal structure of *Anthoceros* thallus.  
(OR)  
b) Mention the economic importance of Bryophytes.

**PART – C**

**ANSWER ANY THREE OF THE FOLLOWING, EACH WITHIN 1200 WORDS;**

**DRAW DIAGRAMS WHEREVER NECESSARY:**

**(3 x 15 = 45)**

16. Explain the classification of Algae proposed by Harold C Bold.
17. Describe the life cycle of *Ectocarpus*.
18. Give an account of life cycle of *Heteroeious Fungus*.
19. Explain the structure and reproduction of Lichens. Add a note on its symbiotic relationship.
20. Give a comparative account of the gametophyte of *Marchantia* and *Funaria*.

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