LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIRST SEMESTER – NOVEMBER 2012

# PB 1505/1502/1500 - PLANT DIVERSITY - I

# (ALGOLOGY, MYCOLOGY, BRYOLOGY)

Date : 08/11/2012 Dept. No. Max. : 100 Marks

Time : 1:00 - 4:00

**PART –A**

**ANSWER THE FOLLOWING, EACH WITHIN 50 WORDS ONLY: (10 x 2 = 20)**

1. Distinguish between Coenobium and Coenoctye.
2. Write down the systematic position of *Cyclotella*.
3. What is Dikaryotization?
4. What are Gemmae?
5. Mention any two features of Prokaryotic cells.
6. What are Obligate parasites?
7. List any four features of Hepaticopsida.
8. What is Protonema?
9. Comment on Biofertilizers.
10. Name any two types of Lichens.

**PART – B**

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

**DRAW DIAGRAMS, FLOWCHARTS WHEREVER NECESSARY**  **(5 X 7 = 35)**

1. a) Describe the sexual reproduction of P*lysiphonia.*

(OR)

b) Give an account of pigments in different classes of Alga.

1. a) Discuss the life cycle patterns in algae.

(OR)

b) Give an account of the salient features of Blue – Green Algae.

1. a) Give an account on Alexopoulus classification of fungi.

(OR)

b) Describe the asexual reproduction in *Albugo*.

14. a) Enumerate the economic importance of Lichens.

(OR)

b) Give an account on the structure of *Funaria* sporophytes.

15. a) Describe the fruiting body of *Polyporus* with suitable diagram.

(OR)

b) Write notes on the economic importance of bryophytes

**PART –C**

**ANSWER THE FOLLOWING, EACH WITHIN 1200 WORDS;**

**DRAW DIAGRAM, FLOW CHARTS WHEREVER NECESSARY: (3 x 15 = 45)**

16. Explain the classification of Algae proposed by Harold C Bold.

17. Give an account of life cycle of Heterocious Fungus.

18. Explain the structure and reproduction of Lichens. Add a note on its symbiotics relationship.

19. Compare the gametophyte of *Marchantia* and *Anthoecros.*

20. Write an essay on the economic importance of fungi.

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