



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIRST SEMESTER – NOVEMBER 2016

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

Date: 05-11-2016

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

PART – A

Answer the following, each within 50 words only:

(10x2=20Marks)

1. Mention the importance of Cyanobacteria.
2. Comment on vegetative reproduction in algae.
3. What are heterocyst?
4. Write note on single cell protein.
5. Differentiate conidium form Sporangium.
6. What is budding and fission?
7. Comment on phycobiont and mycobiont.
8. Write note on red rot of sugar cane.
9. What is alternation of generation?
10. What are gemma cups?

PART – B

Answer the following, each within 500 words only:

(5x7=35 Marks)

Draw diagrams wherever necessary

11. a) Describe the reproduction types in algae with suitable examples.

Or

- b) Distinguish between prokaryotic and eukaryotic cells.

12. a) Discuss the lifecycle of Anabaena.

Or

- b) Explain the asexual reproduction in Volvox.

13. a) Write about the lifecycle patterns in fungi.

Or

- b) Write an account of fungal nutrition.

14. a) What is the role of fungi in biotechnology?

Or

- b) Write about the reproduction of Puccinia.

15. a) What are the general characters of Bryophytes?

Or

- b) Write a brief account on the life cycle of Anthoceros.

PART – C

Answer any **THREE** of the following, each within 1200 words only:
Draw diagrams wherever necessary

(3x15=45 Marks)

16. Write an account of Harold C Bold's Algal classification.
17. How algae are economically importance? Explain.
18. Enumerate the salient features of Alexopolus classification of fungi.
19. Describe the lifecycle of Albugo. Add a note on its symptoms.
20. Write about the reproduction in Marchantia.
