

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

THIRD SEMESTER – NOVEMBER 2009

B 351 – BOTANY - I

Date & Time: 10/11/2009 / 9:00 - 12:00 Dept. No.

Max. : 100 Marks

PART A

Answer **ALL** questions, each within 2 or 3 sentences only: (10 × 2 = 20)

1. Heterocyst
2. Wheat rust
3. Coralloid roots of *Cycas*
4. Capsid
5. Citrus canker
6. Symbiosis
7. Nitrification
8. Phytoplanktons
9. Cheese
10. Autoclave

PART B

Answer any **FIVE** of the following each within one page only. Draw necessary diagrams. (5 × 8 = 40)

11. Describe asexual reproduction in *Aspergillus*.
12. Explain the internal structure of *Lycopodium*.
13. Discuss the structure of ovule of *Cycas*.
14. What are viruses? Mention their salient features.
15. Describe nitrogen cycle.
16. Write about any four methods of control of microorganisms in air.
17. Write about microbial spoilage of food.
18. Discuss the types of microorganisms present in milk.

PART C

Answer any **TWO** of the following, each within 3 or 4 pages only. Draw necessary diagrams. (2 × 20 = 40)

19. Describe the life history of *Ectocarpus*.
20. Give an account of structure of sex organs of *Funaria*.
21. Explain the structure of a typical bacterial cell. Mention the different types of bacteria based on the shape?
22. Discuss the control of microbes by physical agents.
