



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIRST SEMESTER – NOVEMBER 2015

PB 1509 - MYCOLOGY

Date : 06/11/2015
Time : 01:00-04:00

Dept. No.

Max. : 100 Marks

PART – A

Answer the following, each within 50 words only:

(10 x 2 = 20 marks)

1. Define the term holocarpic.
2. Differentiate ascomycetes from basidiomycetes fungi.
3. What is a torula stage?
4. Mention the Symptoms and causal organism of white rust disease
5. Explain the term heteroecious fungi
6. What is a dolipore septum?
7. What is a soredia?
8. Expand VAM and give its application.
9. What are dermatophytic fungi?
10. Comment on Aflatoxins.

PART - B

Answer the following, each answer within 500 words;

(5 x 7 = 35 Marks)

Draw diagrams wherever necessary:

11. (a) Explain the phenomenon of parasexuality in fungi.
(OR)
(b) What are the different types of aggregations and modifications of hyphae found in fungi?
12. (a) Describe the structure of *Peziza* apothecium.
(OR)
(b) Explain the process of asexual reproduction in *Albugo*.
13. (a) Give an account on the different types of lichen thallus.
(OR)
(b) Write briefly about the life cycle of *Colletotrichum*.
14. (a) Give the steps involved in penicillin production.
(OR)
(b) Mention the structure and functions of YAC vector.
15. (a) Give an account on systemic mycoses.
(OR)
(b) What are fungal toxins? Mention their toxic nature.

PART – C

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

(3 x 15 = 45 Marks)

16. Explain the nutritional types found in fungi.
17. Describe the different life cycle patterns of *Saccharomyces*.
18. Explain the process of reproduction in *Puccinia*.
19. List out the economic importance of fungi.
20. Write an account on the structure and reproduction of *Trichophyton* and mention its clinical significance.

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