

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



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

FIRST SEMESTER – APRIL 2016

PB 1509 – MYCOLOGY

Date: 03-05-2016

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

PART-A

Answer the following, each within 50 words only

(10 x 2 = 20)

1. What are haustoria?
2. Write a short note on Parasexuality.
3. What is perithecium?
4. What are conidia?
5. What is acervulus?
6. What is heteroecious fungi?
7. Mention two uses of bakers yeast.
8. Write two applications of YAC vector.
9. What are the characteristics of Dermatophytosis?
10. What are the effects of candida?

PART-B

Answer the following, each within 500 words. Draw diagrams wherever necessary.

(5 x 7 = 35)

- 11a. Give a detailed account on mycelium and its types.
(or)
b. What are the various means of vegetative reproduction in fungi?
- 12a. Describe the thallus of *Rhizopus*
(or)
b. Describe the fruiting body of *Peziza*.
- 13a. Give the internal features of basidiocarp of *Polyporus*.
(or)
b. Describe the aecidial stage of *Puccinia*.
- 14a. List out the economic importance of fungi in agriculture and in industry.
(or)
b. Describe the production of penicillin.
- 15a. Give an account on fungal toxins.
(or)
b. Describe the structure, diagnosis and control measures of *Candida*.

PART-C

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

(3x15= 45)

16. Describe the salient features of the three higher forms of fungi.
17. Describe the sexual reproduction in *Albugo*
18. Write in detail on the morphology and anatomy of Lichens. Mention any five economic importance of lichens.
19. Explain the production of VA mycorrhiza and list its benefits.
20. Describe the structure, reproduction, diagnosis and control measures of *Trichophyton*.

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