



LOYOLA COLLEGE (AUTONOMOUS) CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION
PLANT BIOLOGY AND PLANT BIOTECHNOLOGY
THIRD SEMESTER – APRIL 2025
UPB 3501 – FUNGI



Date: 25-04-2025

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

SECTION A

Answer ANY FOUR of the following, each within 500 words.

Draw diagrams / flowcharts wherever necessary.

4 x 10 = 40 Marks

1. List out the general characters of fungi.
2. Discuss the sexual reproduction in *Rhizopus*.
3. Describe the thallus structure of *Aspergillus*.
4. Explain the sexual reproduction in *Peziza*.
5. Describe the internal structure of the basidiocarp of *Polyporus*.
6. Give an account on the structure and cloning in YAC vector.
7. List the types and benefits of mycorrhiza.
8. Give an account on the different structures present on the upper/lower surface of lichens.

SECTION B

Answer ANY THREE of the following, each within 1000 words.

Draw diagrams / flowcharts wherever necessary.

3 x 20 = 60 Marks

9. Discuss in detail on types of reproduction in fungi.
10. Explain the different modes of sexual reproduction in *Saccharomyces*.
11. Chart out in detail the lifecycle of *Puccinia*.
12. Write in detail on the economic importance of fungi.
13. Give a detailed account on the industrial production of penicillin.
14. Describe in detail on the different types and the internal structure of lichens.

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