



# LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

**THIRD SEMESTER – APRIL 2024**

**UPB 3501 – FUNGI**

Date: 16-04-2024

Dept. No.

Max. : 100 Marks

Time: 09:00AM - 12:00 NOON

## Section A

**Answer the following, each within 50 words**

**(10 x 2 = 20 marks)**

1. What is mycelium?
2. Name any 2 fungal plant pathogens.
3. Draw and label the thallus of *Aspergillus*.
4. Write a note on bread mold.
5. Distinguish between ascospores and basidiospores.
6. List the primary and secondary hosts of *Puccinia*.
7. Expand YAC and state its use.
8. Give any 2 uses of Baker's yeast.
9. What are lichens?
10. Name the 3 types of lichen thallus.

## Section B

**Answer ANY 4, each within 500 words. Draw diagrams and flowcharts wherever necessary.**

**(4 x 10 = 40 marks)**

11. Chart out the salient features of the fungal classes.
12. Give an account on the lifecycle of *Aspergillus*.
13. Describe the sexual reproduction in *Rhizopus*.
14. Explain the infection cycle of *Colletotrichum*.
15. Describe the internal structure of basidiocarp of *Polyporus*.
16. Discuss briefly on the different types of mycorrhiza.
17. Give an account on the economic importance of fungi.
18. Explain the internal structure of homoisomerous and heteromerous thallus of lichens.

## Section C

**Answer ANY 2 of the following, each within 1200 words. Draw diagrams and flowcharts wherever necessary.**

**(2 x 20 = 40 marks)**

19. Give an account on the classification of fungi according to Alexopoulos.
20. Summarise the types of sexual reproduction in yeast with illustrations.
21. Discuss in detail the lifecycle of *Puccinia* with suitable diagrams.
22. Give a detailed account on industrial production of penicillin.

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