



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

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

**THIRD SEMESTER – NOVEMBER 2022**

**UPB 3501 – FUNGI**

Date: 24-11-2022

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

**PART – A**

**Answer the following, each in about 50 words**

**(10x2 = 20 Marks)**

1. What are heterotrophs?
2. Name any 2 vegetative modes of reproduction in fungi.
3. Write notes on macroconidia and microconidia.
4. Draw and label the thallus of *Rhizopus*.
5. What is an ascus?
6. Write notes on acervulus.
7. List any 4 benefits of mycorrhiza.
8. Write notes on baker's yeast.
9. What are lichens? Give examples.
10. Mention any 4 uses of lichens.

**PART – B**

**Answer the following, each in about 500 words. Draw diagrams/ flowcharts wherever necessary.**

**(5 x 7 = 35 Marks)**

11. (a) Give a brief account on the salient features of fungi.  
Or  
(b) Write briefly on the types of asexual reproduction in fungi.
12. (a) Discuss briefly on the sexual reproduction in *Aspergillus*.  
Or  
(b) Write short notes on the lifecycle of *Albugo*.
13. (a) Describe the internal structure of the basidiocarp of *Polyporus*.  
Or  
(b) Write notes on the lifecycle of *Peziza*.
14. (a) Discuss the economic importance of fungi, giving suitable examples.  
Or  
(b) Give an account on YAC vector.
15. (a) Explain in detail about the vegetative reproduction in lichens.  
Or  
(b) Enumerate the economic importance of lichens.

**PART – C**

**Answer ANY THREE of the following, each in about 1200 words. Draw diagrams/ flowcharts wherever necessary. (3 x 15 = 45 Marks)**

16. Give an account on classification of fungi according to Alexopolous.
17. Discuss in detail on the types of sexual reproduction in yeast.
18. Draw and explain the lifecycle of *Puccinia*.
19. Discuss in detail on the industrial production of penicillin.
20. Explain in detail on the types and structural features of lichens.

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