



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

THIRD SEMESTER – APRIL 2022

UPB 3501 – FUNGI

Date: 16-06-2022

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

Part A

Answer the following, each within 50 words

(10 x 2 = 20 marks)

1. What are saprophytes?
2. Write notes on mycelium.
3. Draw the thallus of *Aspergillus*.
4. Write short notes on *Neurospora*.
5. What is acervulus?
6. Write a short note on *Peziza*.
7. Draw a labelled structure of the YAC vector.
8. What are antibiotics?
9. List the types of lichens based on the growth substrate?
10. What is phycobiont and mycobiont?

PART B

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

(5 x 7 = 35 marks)

11a. Give an account on the general characteristics of fungi.

or

b. Explain the lifecycle patterns in fungi.

12a. Briefly describe the lifecycle of *Rhizopus*.

or

b. Discuss the infective stage of *Albugo*.

13a. Give a brief account on lifecycle of *Polyporus*.

or

b. Describe the asexual reproduction in *Colletotrichum*.

14a. List the structure and the major types of endomycorrhiza.

or

b. Write notes on the downstream processing of penicillin.

15a. Describe the vegetative reproduction in lichens.

or

b. Give an account on the economic importance of lichens.

PART C

Answer any three of the following, each within 1200 words. Draw diagrams and flowcharts wherever necessary. (3 x15 = 45 marks)

16. Give an account on the classification of fungi.
17. Discuss in detail on the modes of sexual reproduction in *Saccharomyces*.
18. Write detailed notes on the lifecycle of *Puccinia*.
19. Give an account on the economic importance of fungi.
20. Discuss in detail on the morphology and anatomy of lichen thallus.

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