

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



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

FIRST SEMESTER – APRIL 2018

17/16UPB1MC02 / PB 1509 – MYCOLOGY / FUNGI

Date: 26-04-2018

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART – A

ANSWER THE FOLLOWING, EACH WITHIN 50 WORDS.

(10×2= 20 Marks)

1. Define coenocytic.
2. What is Haustorium?
3. What is Apothecium?
4. Define Budding.
5. What are acervulus?
6. What are uredia?
7. Write notes on Baker's yeast.
8. Mention the importance of Mycorrhiza.
9. Write a note on Athlete's foot.
10. What are Aflatoxins?

PART – B

ANSWER THE FOLLOWING, EACH WITHIN 500 WORDS. DRAW DIAGRAMS AND FLOWCHARTS WHEREVER NECESSARY.

(5×7= 35 Marks)

11. a) Brief the mode of nutrition in fungi.

(OR)

b) Describe asexual reproduction in fungi.

12. a) Describe the structure of *Rhizopus*.

(OR)

b) Explain the asexual reproduction in *Aspergillus*.

13. a) Describe the types of lichen thallus.

(OR)

b) Explain the fruiting body of *Polyporus*.

14. a) Detail the steps involved in penicillin production.

(OR)

b) Detail the structure and function of YAC vector.

15. a) Brief the diagnosis and control measures for ring worm disease.

(OR)

b) What are the symptoms and control measures for candidiasis.

PART - C

ANSWER ANY THREE OF THE FOLLOWING, EACH WITHIN 1200 WORDS. DRAW DIAGRAMS AND FLOWCHARTS WHEREVER NECESSARY. (3×15= 45 Marks)

16. Classify fungi based on Alexopolus (1962).
17. Describe the life cycles of *Saccharomyces*.
18. Explain about sexual reproduction in Lichens.
19. Write about the economic importance of fungi.
20. Write an essay on fungal toxins.
