



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIRST SEMESTER – NOVEMBER 2019

16/17/18UPB1MC02 / PB 1509 – FUNGI & MYCOLOGY

Date: 01-11-2019

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART – A

ANSWER THE FOLLOWING, EACH WITHIN 50 WORDS.

(10×2= 20 Marks)

1. What is Coenocytic mycelium?
2. What is Sclerotium?
3. Write a note on microspores of *Neurospora*.
4. Define Budding
5. What is Red rot of Sugarcane?
6. What is basidiocarp?
7. Comment on Soredia.
8. Define Symbiosis
9. Mention the importance of VAMF in agriculture.
10. What is Athlete's foot?

PART – B

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

(5×7= 35 Marks)

11. a) Explain the modifications of fungal mycelium.
(OR)
b) Describe the classification of fungi.
12. a) Describe the sexual reproduction in *Peziza*.
(OR)
b) Explain the asexual reproduction in *Rhizopus*.
13. a) Explain the acervulus of *Colletotrichum*.
(OR)
b) Outline the life cycle of *Puccinia*.

14. a) Write the structure and the importance of YAC vector.

(OR)

b) Describe the methodology of mycorrhizal production.

15. a) Write short notes on systemic mycoses.

(OR)

b) Write short notes on Dermatophytoses.

PART – C

ANSWER ANY THREE OF THE FOLLOWING, EACH WITHIN 1200 WORDS, DRAW DIAGRAMS WHEREVER NECESSARY

(3×15= 45 Marks)

16. Give an account on sexual and asexual fruiting bodies of fungi.

17. Describe the life cycle of *Aspergillus*.

18. Describe the structure of lichen thallus and the various vegetative structures associated with it.

19. Write an essay on penicillin production and its uses.

20. Write detailed notes on fungal toxins.
