



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIRST SEMESTER – APRIL 2017

16UPB1MC02 / PB 1509 – FUNGI & MYCOLOGY

Date: 21-04-2017
01:00-04:00

Dept. No.

Max. : 100 Marks

PART - A

Answer the following each within 50 words:

(10x2=20 Marks)

1. Write short notes on haustoria.
2. What are chlamydospores?
3. Comment on coprophilous fungus.
4. How are ascogenous hyphae formed?
5. Name the disease and symptoms of *Colletotricum*.
6. How algae are benefited from fungi in lichen?
7. Write two applications of baker's yeast
8. Draw the structure of YAC
9. What are systemic mycoses?
10. How are dermatophytes diagnosed?

Part – B

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

(5x7=35 Marks)

11. a. Describe the habit of fungi and its modifications.
(or)
b. Discuss the fruiting bodies in ascomycetes and basidiomycetes.
12. a. Describe asexual reproduction in *Albugo*
(or)
b. Explain any one life cycle in *yeast*.
13. a. Describe the morphology and anatomy of *Polyporus*.
(or)
b. Give the internal structure of barberry leaf infected by *Puccinia*.
14. a. What are the methods of identification of mycorrhiza and list out its applications.
(or)
b. Describe the production of penicillin
15. a. Mention some of the fungal toxins and its importance.
(or)
b. What are the effects of candidiasis?

Part – C

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

16. Explain Alexopolus (1962) classification of fungi.
17. Describe sexual and asexual reproduction in *Rhizopus*.
18. Give a detailed account on the types, structure and vegetative reproduction in Lichens.
19. Describe the economic importance of fungi
20. Describe the structure, reproduction, diagnoses and control measures of *Trichophyton*.
