

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



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

FIRST SEMESTER – NOVEMBER 2016

16UPB1MC02/PB 1509 – FUNGI

Date: 07-11-2016

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

PART – A

(10 x 2 = 20 marks)

Answer the following, each within 50 words.

01. Define mycelium.
02. What is parasexual cycle?
03. Write about Chlamydo spores.
04. Comment on *Peziza* apothecium.
05. What is Isidia?
06. Write about Acervulus.
07. Write notes on YAC vector.
08. What are Ectomycorrhizae?
09. What is systemic mycosis?
10. Write about Dermatophytes.

PART – B (5 x 7 = 35 marks)

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

- 11a. Write an account on the asexual fruiting bodies in fungi.
(OR)
b. Explain the various mode of nutrition in fungi.
- 12a. Describe the life cycle of *Saccharomyces cerevisiae*.
(OR)
b. Enumerate the sexual reproduction of *Rhizopus*.
- 13a. Explain the structure of *Polyporus* fruiting body.
(OR)
b. List out the economic importance of Lichens.
- 14a. Give a concise account of Penicillin production.
(OR)
b. Write notes on Baker's yeast.
- 15a. Describe the structure, symptoms and reproduction of *Trichophyton*.
(OR)
b. Write short notes on fungal toxins.

PART – C (3 x 15 = 45 marks)

Answer any **THREE** of the following, each within 1200 words. Draw diagrams and flow charts wherever necessary.

16. Explain the classification of Fungi by Alexopoulos.
17. Trace the life cycle of *Albugo*.
18. *Puccinia* is a Heteroecious fungus – Discuss.
19. Write an account on the types and importance of Mycorrhiza.
20. Describe the structure, clinical diagnosis and control measures of *Candida*.
