

A-0029

Total Pages : 3

Roll No.

MBOT-506

M.Sc. BOTANY (MSCBOT)

(Biology and Diversity of Fungi)

2nd Semester Examination, Session December 2024

Time : 2:00 Hrs.

Max. Marks : 35

Note :- This paper is of Thirty Five (35) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

Section-A

(Long Answer Type Questions) 2×9½=19

Note :- Section 'A' contains Five (05) Long-answer type questions of Nine and Half (9½) marks each. Learners are required to answer any two (02) questions only.

1. What are Fungi ? Give an account of vegetative structure and mode of reproduction of fungi with the help of suitable diagram.
2. Give a detailed account on chemical composition of fungal cell wall and structural arrangement of chemical constituents in cell wall.
3. Describe in detail the somatic structures and reproduction of Basidiomycotina group of fungi.
4. What are Mycorrhiza ? Explain the advantages of Mycorrhizal application to the field crops.
5. What are Mushrooms ? Give a detailed account on types and medicinal properties of mushrooms.

Section–B

(Short Answer Type Questions) 4×4=16

Note :– Section 'B' contains Eight (08) Short-answer type questions of Four (04) marks each. Learners are required to answer any *four* (04) questions only.

1. Write a brief note on different types of life cycles in fungi.
2. Write a short note on fungi as biocontrol agents.

3. Write short note on any *two* of the following :
- (a) Ascocarp
 - (b) Dolipore septum
 - (c) Organic acids of fungal origin
 - (d) Applications of Citric acid
4. Describe the necrotrophs and biotrophs.
5. Give a brief account on Biofertilizers.
6. What are intermediate infections ? Write about Aspergillosis.
7. What do you understand by parasexuality in fungi ?
8. Describe the following :
- (a) Mycoprotein
 - (b) Heterothallism
