

**K-374**

Total Pages : 3

Roll No. ....

**MBOT-603**

**Applied Mycology**

M.Sc. Botany(MSCBOT)

3rd Semester Examination, 2023 (Dec.)

**Time : 2 Hours]**

**[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)**

**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.

(2×9½=19)

1. Give an illustrated account of fungal cell and describe its cell wall structure.
2. Write in detail about diversity of fungal habitats.
3. Explain different types of mycorrhizae. Give a brief note on arbuscular mycorrhizae.
4. Discuss in detail the classification of fungi proposed by Ainsworth.
5. Describe in detail any five edible mushrooms that can be cultivated.

### **SECTION-B**

#### **(Short Answer Type Questions)**

**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. (4×4=16)

1. Give a brief account of parasexual cycle.
2. Write a short note on septation in fungal hypha.
3. Write a short note on nomenclature of fungi.

4. Write briefly about the importance of mycorrhizae in agriculture and forestry.
  5. Write a short note on fungi as biocontrol agents for diseases.
  6. Write briefly about the scope of fungal biotechnology.
  7. Write a short note on vitamins produced by fungi.
  8. Write a brief note on fermentation process for citric acid production.
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