

**A-867**

**Total Pages : 3**

**Roll No. -----**

**MBOT-603**

**Applied Mycology**

**M.Sc. Botany (MSCBOT)**

**3<sup>rd</sup> Semester Examination 2024 (June)**

**Time: 2:00 hrs**

**Max. Marks: 35**

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

**P.T.O.**

**A-867/MBOT-603**

**1**

### **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.

[2x9½=19]

- Q.1. Give a detailed account of medicinal and nutritional values of edible mushrooms.
- Q.2. Describe the role of fungi in sewage treatment.
- Q.3. Give an illustrated account of industrial importance of fungi and its role in human development.
- Q.4. Describe different modes of reproduction in fungi.
- Q.5. What are bio-pesticides? Give an account of fungal bio-pesticides.

### **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.

[4x4=16]

- Q.1. Give a brief note on thermophilous and psychrophilous fungi.
- Q.2. Write a short note on scope of Fungal Biotechnology.

- Q.3. Briefly discuss about fungi involved in litter decomposition.
- Q.4. What is PCR? How is it useful in the classification of fungi?
- Q.5. Briefly describe growth requirements of paddy straw mushroom.
- Q.6. Justify the statement that "fungi serve as pollution indicators".
- Q.7. Define mycorrhizae. Briefly discuss about ectomycorrhizae.
- Q.8. Give a brief note on fungal enzymes.

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