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Total Pages : 3

Roll No.

MBOT-603

Applied Mycology

M.Sc. Botany (MSCBOT)

3rd Semester Examination, 2023 (June)

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 answer 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. Explain different types of mycorrhizae in detail.

2. Give an account of organic fungicides. What are the qualities of good organic fungicides?
3. Define the role of fungi in biodegradation.
4. Give an account of mushroom cultivation. What do you think about the climatic conditions of Uttarakhand for mushroom cultivation?
5. Define the process of Penicillin production in detail.

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. Briefly define the industrial importance of fungi.
2. Explain briefly the classification proposed by Ainsworth.
3. Define the role of fungi in sewage treatment.
4. Define the cultivation of button mushroom.
5. How do soil fungi influence the plant growth?

6. Define different steps of production of alcohol using starch as a substrate.
 7. Give an account of fungal enzymes.
 8. Explain briefly about parasexual cycle in fungi.
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