

A-877

Total Pages : 3

Roll No.

BOT-553

M.Sc. BOTANY (MSCBOT)

(Applied Mycology and Plant Pathology)

2nd Year Examination, 2024 (June)

Time : 2:00 Hrs.

Max. Marks : 70

Note :- This paper is of Seventy (70) 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 2×19=38

Note :- Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

1. Give a detailed account of fungal diversity and also describe other fungi which are found in the extreme environments.
2. What do you understand about Mushrooms ? Explain nutritive and medicinal values of Mushrooms.
3. Give an account on organic acids and amino acids produced by microbes.
4. Enumerate the bacterial diseases on plants, describe their symptoms and suggested control measures.
5. What is bioremediation ? Give a detail account on bioremediation of wastewater and sewage treatment.

Section–B

Short Answer Type Questions 4×8=32

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

1. Write a short note on fungi as biodeteriorating and biodegrading agents.
2. Give a brief note on fungi as biocontrol agents for diseases.
3. Write about viral diseases of plants, and add a note on control measures.

4. Write a short note Edible mushrooms.
5. Write short notes on any *two* :
 - (a) Fungi as pollution indicators
 - (b) Life cycles in fungi
 - (c) Applications of Mycorrhizae
6. Write short notes on cultural methods of plant diseases management.
7. Explain the following (any *two*) :
 - (a) Proteins from fungi
 - (b) Loose smut of Wheat
 - (c) Wilt of potato and tomato
8. Give a causal organism and symptoms of the following diseases:
 - (a) Leaf spot of Mango
 - (b) Leaf curl of Papaya
 - (c) Little leaf of Brinjal
 - (d) Foot rot of Rice
