

S-1051

Total Pages : 3

Roll No.

BOT-553

Applied Mycology and Plant Pathology

M.Sc. Botany (MSCBOT)

2nd Year Examination, 2022 (Dec.)

Time : 2 Hours]

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.

SECTION-A

(Long Answer Type Questions)

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.

(2×19=38)

1. Describe in detail the various mode of reproduction in fungi.

2. Discuss the role of fungi in bioremediation of waste water and sewage treatment.
3. What do you understand by mushroom cultivation? Discuss the commercial cultivation techniques and marketing of *Agaricus bisporus* in detail.
4. Write a detailed note on chemical treatment to control the plant diseases.
5. Describe any three plant viral diseases with special reference to their symptoms, causal organism and disease control measurements.

SECTION-B

(Short Answer Type Questions)

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. (4×8=32)

1. Write a note on the pansexuality in fungi.
2. Briefly describe the basic criteria for classification of fungi.
3. Write a short note on mycoprotein.

4. Justify the statement that "fungi serve as pollution indicators".
 5. Classify the plant diseases according to their occurrence.
 6. Write a short note on the defense structure formed in plants in response to infection by the pathogen.
 7. Write the difference between phytotoxin and vivotoxin.
 8. Discuss the mycorrhizae and its importance.
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