

P-926

Total Pages : 3

Roll No.

BOT-553

Applied Mycology and Plant Pathology

M.Sc. Botany (MSCBOT)

2nd Year Examination, 2023 (June)

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. 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 Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

1. Write about different criteria used in the classification of fungi.

2. Write a detailed note on mycorrhizae. Explain arbuscular mycorrhizae.
3. Give a detailed account on nutritive and medicinal values of mushrooms.
4. Write a detailed account on scope of fungal biotechnology.
5. Describe any three plant bacterial diseases with special reference to their symptoms, causal organisms 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 short note on various modes of asexual reproduction in fungi.
2. Write a short note on halophilic fungi.
3. Write briefly on salient features of nomenclature of fungi.
4. Give a brief note on edible mushrooms that can be cultivated.

5. Write a short note on fungi as biocontrol agents on insect pests.
 6. Write short note on any *two* of the following :
 - (a) Aquatic fungi.
 - (b) Thermophilous fungi.
 - (c) Keratinophilic fungi.
 7. Write a short note on fermentation production of alcohols by fungi.
 8. Write a short note on :
 - (a) Bioremediation by fungi.
 - (b) Trickling filter.
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