

C071

Total Pages : 3

Roll No.

MBOT-603

Applied Mycology

M.Sc. BOTANY (MSCBOT)

3rd Semester Examination, 2022 (June)

Time : 2 Hours]

Max. Marks : 40

Note : This paper is of Forty (40) 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 Ten (10) marks each. Learners are required to answer any Two (02) questions only.

(2×10=20)

1. Describe the different modes of reproduction in fungi.
2. Give a detailed account of medicinal and nutritional values of edible mushrooms.

3. Discuss about production of organic acids and antibiotics.
4. Give an account on different criteria used in the classification of fungi.
5. Give a detailed account on role of fungi in detoxification and fungal enzymes.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Five (05) marks each. Learners are required to answer any Four (04) questions only. (4×5=20)

1. Discuss briefly the industrial importance of fungi.
2. Define the terms "fermentation" and "fermenter". Give an account of conditions required in fermenter for the growth of microorganisms.
3. Write a short note on any *two* :
 - (a) Vitamins.
 - (b) Applications of Mycorrhizae.
 - (c) RAPD & RFLP.
4. Explain about scope of Fungal Biotechnology.

5. Describe the following :
 - (a) Thallus organization in fungi.
 - (b) Cell and cell wall structure in fungi.
 6. Give a brief account on the diversity of fungal habitats.
 7. Write a short note on bioremediation of waste water and sewage treatment.
 8. Describe the role of fungi in degradation of hydrocarbons.
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