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Total Pages : 3

Roll No.

MSCBOT-501

Fungi, Lichens, Viruses and Bacteria

M.Sc. Botany (MSCBOT)

1st Semester 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 salient feature of Basidiomycotina and discuss the characteristic spores in Uredinales.

2. What are plant viruses? How virus is multiplied in a host? Explain the methods of isolation and purification of viruses.
3. What are bacteria? Describe their different morphological forms. What are the major differences between Gram-positive and Gram-negative bacteria?
4. What are fungi? Give the classification of fungi upto order level.
5. What are lichens? Give an account of the habit, habitat and external morphological features of lichens.

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. Describe in detail the various symptoms of plants infected by fungi.
2. Define disease. Describe the classification and symptoms of various diseases.
3. Write economic importance of lichens.

4. Differentiate the following :
 - (a) Animal viruses and plant viruses.
 - (b) Transcription and translation.
 5. Write economic importance of fungi.
 6. Role of fungi in industry.
 7. Describe the life cycle of *Ustilago* or *Aspergillus*.
 8. Write characteristic features of any *two* of the following :
 - (a) *Rhizopus*
 - (b) *Agaricus*
 - (c) *Alternaria*
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