

S-47

Total Pages : 3

Roll No.

MSCBOT-501

Fungi, Lichens, Viruses and Bacteria

M.Sc. Botany (MSCBOT)

1st Semester 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. What are fungi? Give the classification of fungi upto order level.

2. Write salient feature of Ascomycotina and discuss the characteristic spores ascomycetes.
3. Describe briefly the nature of plant viruses and the method of their transmission.
4. Describe the structure of bacterial cell and importance of bacteria in human life.
5. Describe structure and economic importance 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. What are lichens? Describe different methods of reproduction in lichens.
2. Differentiate the following :
 - (a) Gram-positive and Gram-negative bacteria.
 - (b) Smut and Rust.
3. Describe in detail the various symptoms of plants attacked by fungi.

4. Describe the life cycle of *Puccinia* or *Taphrina*.
 5. Write short notes on any *two* of the following :
 - (a) Heterothallism.
 - (b) Powdery mildews.
 - (c) Heterokaryosis.
 6. Discuss spore formation in fungi.
 7. What are bacteriophages? Discuss their replication.
 8. Describe mode of nutrition in fungi.
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