

S-1045

Total Pages : 3

Roll No.

BOT-501

Biology and Diversity of Viruses, Bacteria and Fungi

M.Sc. Botany (MSCBOT)

1st 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. What are viruses? Write a detailed note on the transmission of plant viruses.

2. What do you understand by the genetic recombination in bacteria? Discuss the different methods of genetic recombination in bacteria.
3. Give a general account on the origin and phylogeny of fungi.
4. Describe how ascus develops in ascomycetes? Explain about ascosporeogenesis and types of ascocarp in sac fungi.
5. Describe the economic importance of bacteria in detail.

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 brief note on the types of nucleic acids present in different viruses.
2. What are archaebacteria? Describe the various major groups of archaebacteria.
3. Write a short note on mycotoxins.
4. What is mycoplasma? Highlight its characteristic features in brief.

5. What do you understand by thallus? Describe in brief about the various forms of thallus occur in fungi.
 6. Briefly describe the hetrothallism in fungi.
 7. Write a short note on mycorrhizae.
 8. Discuss the nutritive value of edible mushrooms.
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