

K-364

Total Pages : 3

Roll No.

MBOT-501

Biology and Diversity of Viruses and Bacteria

M.Sc. Botany (MSCBOT)

1st Semester Examination, 2023 (Dec.)

Time : 2 Hours]

[Max. Marks : 35

Note : This paper is of Thirty Five (35) 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 answers 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 Nine and Half (9½) marks each. Learners are required to answer any Two (02) questions only.

(2×9½=19)

1. Describe the various methods of transmission of plant viruses.
2. Discuss the various mode of reproduction in bacteria.
3. What is mycoplasma? Explain the economic importance of mycoplasma.
4. Write a detailed note on biofertilizers and its importance.
5. Discuss the various symptoms of plant disease caused by the viruses. Discuss briefly any four plant diseases caused by the viruses.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Four (04) marks each. Learners are required to answer any Four (04) questions only. (4×4=16)

1. Discuss the size, shape and symmetry of viruses.
2. Write a note on cyanobacteria.
3. Briefly discuss the role of bacteria in dairy industry.
4. Which microorganism is considered as a connective link between living and non-living organisms? Justify your answer with appropriate supports.

5. Write a short note on the genetic material of viruses.
 6. What do you understand by plasmids?
 7. What are biopesticides?
 8. Write the difference between gram positive and gram negative bacteria.
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