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Total Pages : 3

Roll No.

MBOT-501

Biology and Diversity of Viruses and Bacteria

M.Sc. Botany (MSCB0T)-20

1st Semester Examination, 2022 (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.

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. Discuss the various methods of purification of viruses.

2. Describe the ultrastructure of bacteria with the help of well labelled diagram.
3. Write a detailed note on nutrition in bacteria.
4. What do you understand by mycoplasma? Discuss the characteristic features of mycoplasma.
5. What do you understand by bacteriophage? Discuss the methods of replication in them.

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 classification of viruses given by ICTV.
2. Write a brief note on archaebacteria.
3. Describe the role of bacteria in medicine.
4. Discuss the asexual mode of reproduction in bacteria.
5. Write a short note on Biofertilizers.

6. Difference between prokaryotic and eukaryotic cell.
 7. What do you understand by plasmids?
 8. Which microorganism is considered as a connective link between living and non-living organisms? Justify your answer with appropriate supports.
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