

A-044

Total Pages : 3

Roll No. -----

MBOT-501

Biology and Diversity of Viruses and Bacteria

M.Sc. Botany (MSCBOT-20)

1st Semester, Examination 2024 (June)

Time: 2:00 hrs

Max. Marks: 35

Note : This paper is of Thirty five (35) marks divided into two (02) Section 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 (9.5) marks each. Learners are required to answer any Two (02) questions only.

[2x9.5=19]

P.T.O.

- Q.1. Describe and illustrate the ultra structure of Tobacco Mosaic Virus (TMV).
- Q.2. Discuss the methods of transmission of plant viruses.
- Q.3. Write the characteristics features of Mycoplasma and how does it differ from bacteria?
- Q.4. What are viruses? Differentiate between plant and animal viruses. Give a detailed account of classification and replication of viruses.
- Q.5. Describe in detail about the role of bacteria in industries.

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.

[4x4=16]

- Q.1. Write a short note on symmetry of Viruses.
- Q.2. Differentiate between the Gram positive bacteria and Gram negative Bacteria.
- Q.3. Discuss any two methods of virus purification.
- Q.4. Describe some important bacterial diseases in plants.

- Q.5. Discuss any two plant diseases caused by virus.
- Q.6. Discuss symptoms of virus infection in plants.
- Q.7. What is Bacteriophage? Describe their structure with suitable diagram.
- Q.8. Give an account of proteins of viruses.
