

A-0025

Total Pages : 3

Roll No.

MBOT-501

M.Sc. BOTANY (MSCBOT)

(Biology and Diversity of Viruses and Bacteria)

1st Semester Examination, Session December 2024

Time : 2:00 Hrs.

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) $2 \times 9\frac{1}{2} = 19$

Note :- Section 'A' contains Five (05) Long-answer type questions of Nine and Half ($9\frac{1}{2}$) marks each. Learners are required to answer any *two* (02) questions only.

1. Give an illustrated account of the morphology and chemical structure of the virus.
2. Give a detailed account of economic importance of Bacteria.
3. Draw a well labelled diagram of any lytic phage write an account of its multiplication.
4. Explain in detail about different modes of nutrition in Bacteria.
5. What is Mycoplasma ? How does it differ from bacteria and viruses ?

Section–B

(Short Answer Type Questions) 4×4=16

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.

1. Briefly explain about structure of cell wall of Bacteria.
2. Explain modern classification of Bacteria in brief.
3. Name five important diseases caused by Mycoplasma.
4. Differentiate between lytic and lysogenic Phages.

5. Give an account of classification of viruses.
6. Discuss any *two* plant diseases caused by bacteria.
7. Write short note on any *two* of the followings :
 - (a) Capsid
 - (b) Bacteriophage
 - (c) TMV
8. Write a brief note on archaebacteria.
