

1903000202030072
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (FIRST YEAR)
(SECOND SEMESTER)
MEDICAL LABORATORY TECHNOLOGY PAPER-IV
MLT-04: INTRODUCTION TO MICROBIAL WORLD

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF SCIENCE (FIRST YEAR) (SECOND SEMESTER)**
 - b. Name of the Subject : **MEDICAL LABORATORY TECHNOLOGY PAPER-IV
MLT-04: INTRODUCTION TO MICROBIAL WORLD**
 - c. Subject Code No : **1903000202030072**
2. Sketch neat and labelled diagram wherever necessary.
 3. Figures to the right indicate full marks of the question.
 4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Objective type Question

8

1. Enlist genotypic characteristics for microbial identification.
2. Enlist the parts of eukaryotic cell.
3. Give examples of actinomycete.
4. What is virus? Enlist different viruses.

Q.2 Write in details on the following (Any two)

14

1. What is spontaneous generation theory? Explain any one experiment which disproves it.
2. Explain morphology & pathogenic significance of rickettsia.
3. Explain viral infection of bacterial and archael cells.

Q.3 Write in details on the following (Any two)

14

1. Describe present and future challenges of medical microbiology.
2. Explain morphology of molds.
3. Explain structure & cultivation of mycoplasma.

Q.4 Write in details on the following (Any two)

14

1. Explain microscopic method as phenotypic characteristics for microbial identification.
2. Write a note on protozoa.
3. What are oncogenes? Explain role of viruses in causing cancer.
