

2303000501016001-S
EXAMINATION MARCH-APRIL 2024
BACHELOR OF SCIENCE(FIRST SEMESTER)(ATKT)
MAJOR-1MICROBIOLOGY PAPER - I THEORY
(FUNDAMENTALS OF MICROBIOLOGY)- LEVEL 3

[Time: As Per Schedule]

[Max. Marks:35]

Instructions:

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

- a. Name of the Examination : **BACHELOR OF SCIENCE (FIRST SEMESTER)(ATKT)**
 - b. Name of the Subject :**MAJOR-1 MICROBIOLOGY PAPER - I THEORY (FUNDAMENTALS OF MICROBIOLOGY) LEVEL 3**
 - c. Subject Code No : **2303000501016001-S**
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 Answer in short: Any 5

5

- a. What is Mycology?
- b. What are actinomycetes?
- c. Who is considered as the 'Father of bacteriology'?
- d. What is Tyndallization?
- e. What is a 'pure culture'?
- f. What are bacteriophages?

Q.2 Write short notes or brief answers on any 2 of the following:

10

- a. Whittaker's 5-kingdom concept simplifies the study of various organisms in a systematic manner.
- b. Point out the differences between Prokaryotic and Eukaryotic cells.

d. Discuss: Morphological diversity among bacteria.

Q.3 Answer any 2 of the following: 10

- a. Explain how Louis Pasteur disproved the theory of spontaneous generation?
- b. Robert Koch's postulates for microbial diseases.
- c. Comment on any two applied areas of microbiology.

Q.4 Explain in short any 2 of the following: 10

- a. Among various solidifying agents, agar-agar proved to be the best for the preparation of solid media.
- b. Historical developments in the field of agricultural microbiology.
- c. Historical developments in the field of virology.
