

2303000501036001
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (FIRST SEMESTER) (NEP)
MINOR MICROBIOLOGY PAPER - I (EUKARYOTIC CELL
STRUCTURE) THEORY-LEVEL 3

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

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

- a. Name of the Examination : **BACHELOR OF SCIENCE (FIRST SEMESTER) (NEP)**
 - b. Name of the Subject : **MINOR MICROBIOLOGY PAPER - I (EUKARYOTIC CELL STRUCTURE) THEORY-LEVEL 3**
 - c. Subject Code No : **2303000501036001**
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 Give answers of any five:

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- a) What is the significance of Vacuole in the cell?
- b) Which organelle is known as "Power house of cell"? Name the scientist who showed its existence in cell.
- c) Give full form of t-RNA and m-RNA
- d) Define cytoplasm and give its composition
- e) Give different classes of nuclear enzymes.
- f) Enlist two functions of cell membrane.

Q.2 Explain/comment on any two of the following:

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- a) Cytoplasmic membrane is important for nutrient transport in cell.
- b) Describe an overview of Eukaryotic cell structure.
- c) Elaborate: Cytoskeleton is made of inter connected filaments in eukaryotes.

Q.3 Discuss any two of the following:

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- a) Explain about structure and functions of Golgi apparatus.
- b) Write down about Mitochondria and its evolutionary significance.
- c) Discuss about Nucleus of Eukaryotic cell.
