



RAN-2403001301021111

B.Sc. (Biotechnology) (Sem. I) Examination March - 2026

BT-MJ-102 : Cell Biology

Time: 1.30 Hour]

[Total Marks: 38

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book. (2) Figures to the right indicate full marks. (3) Draw neat and labelled diagrams wherever necessary.	Seat No.: <table border="1"> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> Student's Signature						

- Q.1. Short question (Any 8 out of 9) 08**
- Name the book in which Robert Hooke described cells.
 - What are plasmodesmata?
 - Give two differences between prokaryotic and eukaryotic cell.
 - In which type of cells is ER absent?
 - Define stroma.
 - What is oxidative phosphorylation?
 - What is mitosis?
 - What is the main purpose of Meiosis?
 - What term describes the division of the cytoplasm at the end of mitosis?
- Q.2. Short Note (Any 2 out of 3) 10**
- Describe the structural organization of a Eukaryotic cell.
 - Write a note on Structure of Plasma membrane and Cell wall.
 - Describe the cell theory in detail.
- Q.3. Short note (Any 2 out of 3) 10**
- Describe the ultrastructure of a chloroplast with a neat labelled diagram.
 - Explain why lysosomes are referred to as “suicidal bags” and discuss their significance in the cell.
 - Write down the structure and functions of Golgi Apparatus.
- Q.4 Short note (Any 2 out of 3) 10**
- What is Telophase? Write a note on Mitosis.
 - Explain the different phases of the cell cycle.
 - Describe the factors affecting the regulation of the cell cycle.