



RAN-2403001301036005

B. Sc. Microbiology (Biotech) (NCF-NEP) (Sem. - I) Examination March - 2026

Basics of Biochemistry

BT - ME - 101 : Basics of Biochemistry

Time: 1 Hours]

[Total Marks: 25

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. Answer in Short (Any Five). 05**
- What is Closed system?
 - The magnitude of ΔG depends on?
 - Fill the blank: $\Delta G = \Delta H - T$ _____.
 - Define K_w .
 - Give two examples of Diprotic acid.
 - Acidic buffer is mixture of _____ and its _____.
- Q. 2. Short note: (Any Two). 10**
- RNA world scenario
 - Discuss on coupling of reaction with example.
 - Discuss Evolution of eukaryotic cell.
- Q. 3. Short note: (Any Two). 10**
- Explain Weak acid and base.
 - What is pH? Write a note on pH meter.
 - Proton Hopping.