



RAN-2303000501036003

F.Y.B.Sc. (NCF-NEP) (Sem. I) Examination March - 2026

MB-ME-102: Microbiology (Paper - I)

Essentials of Biochemistry

Time: 1 Hour]

[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 of the question. (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. Give Specific answers (Any Five):** **05**
- Name any two subatomic particles found in atoms?
 - Give any two examples of base.
 - What is meant by 1 molar (1 M) solution?
 - What are nonpolar compounds?
 - Name the bond present between amino acids?
 - Give the full form of RNA?
- Q.2. Explain/comment on any two of the following:** **10**
- Explain the difference between a molecule and a compound.
 - Write a note on concentration of compounds in solution, briefly.
 - Define pH. Explain how hydrogen ion concentration determines whether a solution is acidic or basic.
- Q.3. Write short notes on any two of the following:** **10**
- Give a short account on carbohydrates with their structure.
 - Write a detailed note on Enzyme specificity.
 - How does the ionization constant of water (K_w) influence the pH of a solution?