


RAN-2503001305041001

B.Sc. (Biotechnology) (NCF-NEP) (Sem. V) Examination March - 2026
BT-BE-501 : Immunotechnology

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	Seat No.: <table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table> Student's Signature						

- Q.1. Short question (Any 5 out of 6) 05**
- Define monoclonal antibody.
 - What is the basic reaction principle behind chemiluminescence?
 - Define flocculation.
 - What is the difference between primary and secondary immunodeficiency?
 - Define vaccine.
 - Rheumatoid arthritis typically shows symmetry in joint involvement. True or False?
- Q.2. Short Note (Any 2 out of 3) 10**
- Explain Competitive ELISA with a labelled diagram.
 - Explain the different types of monoclonal antibodies. Give one example of each type and mention its therapeutic application.
 - Differentiate between precipitation and agglutination..
- Q.3. Short Note (Any 2 out of 3) 10**
- Explain the different types of vaccines with examples and mention one advantage of each type.
 - Describe Type II hypersensitivity with an example.
 - Give a note on Immunodeficiency.