


RAN-2403001301011111

B.Sc. (Bio Technology) (NCF-NEP) (Sem. I) Examination March - 2026
BT-MJ-101 Introduction to Biotechnology

Time: 1.30 Hours]
[Total Marks: 38

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: 30px; border-collapse: collapse;"> <tr> <td style="width: 16.6%;"></td> <td style="width: 16.6%;"></td> <td style="width: 16.6%;"></td> <td style="width: 16.6%;"></td> <td style="width: 16.6%;"></td> <td style="width: 16.6%;"></td> </tr> </table> Student's Signature						

- Q.1. Short question (Any 8 out of 9) (08)**
- What does ABLE stand for?
 - What is the KAUSHALYA initiative, and who are its primary beneficiaries?
 - What is modern biology characterized by?
 - State the vision of GSBTM.
 - Expand the abbreviation GBRC.
 - Which sectors are the main focus areas of STBI ?
 - Mention three major advantages of using industrial biotechnology in production processes.
 - Identify the easiest source for obtaining stem cells.
 - Define agricultural biotechnology.
- Q.2. Short Note (Any 2 out of 3) (10)**
- Explain how the interdisciplinary nature of biotechnology has supported its growth and application in addressing complex real-world problems.
 - List and describe the major areas of application of biotechnology.
 - Write a detailed note on Traditional Biotechnology.
- Q.3. Short note (Any 2 out of 3) (10)**
- Write a comprehensive note on the Gujarat State Biotechnology Mission (GSBTM),
 - Discuss the Biotech Regulatory Agencies in India in detail.
 - Prepare a detailed account of STBI and GBRC.
- Q.4. Short note (Any 2 out of 3) (10)**
- Define gene therapy and explain how it is applied in the treatment of genetic disorders.
 - What is biofortification? Elaborate significance of food, biotechnology.
 - Which steps from environmental Biotechnology can be used to treat a contaminated river/lake water.