

**2303001301010001**  
**EXAMINATION NOVEMBER 2024**  
**BACHELOR OF SCIENCE (BIOTECHNOLOGY)**  
**(NEP) (FIRST SEMESTER)**  
**MAJOR : INTRODUCTION TO**  
**BIOTECHNOLOGY - LEVEL 1**

[Time: As Per Schedule]

[Max. Marks:38 ]

**Instructions:**

**1. Fill up strictly the following details on your answer book**

**a. Name of the Examination : BACHELOR OF SCIENCE (BIOTECHNOLOGY) (NEP) (FIRST SEMESTER)**

**b. Name of the Subject : MAJOR : INTRODUCTION TO BIOTECHNOLOGY - LEVEL 1**

**c. Subject Code No : 2303001301010001**

2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

**Q.1 Attempt the following questions (Any Eight)**

**8**

- (a) What was Karl Ereky's original description of biotechnology?
- (b) Define: Red Biotechnology?
- (c) What are the objectives of GSBTM?
- (d) Give full form of EMB-NET?
- (e) What is bioremediation?
- (f) Name the two main types of gene therapy?
- (g) What is Zymase?
- (h) Explain: Fermentation
- (i) What differentiates the modern biotechnology from the classical Biotechnology?

**Q.2 Attempt the following questions (Any Two)**

**10**

- (a) Explain: Biotechnology as interdisciplinary area.
- (b) What are the three core components of biotechnological processes?
- (c) Discuss about global impact and current excitement of biotechnology.

**Q.3 Explain in detail (Any Two)**

**10**

- (a) What steps has the GSBTM taken since its establishment in 2004 to facilitate the overall development of biotechnology in Gujarat?
- (b) Describe the different incubation services and categories of innovators supported by STBI.
- (c) Explain: Public Sector Undertakings of DBT

**Q.4 Explain in detail (Any Two)**

**10**

- (a) Discuss the economic impact of biotechnology on global markets.
- (b) Explain the role of genetic engineering in biotechnology.
- (c) Write a detailed note on food Biotechnology.

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