



RAN - 1903001102030001

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B. Sc. Biotechnology (Sem. - II) Examination April - 2023

BT - 03 : Basic Biochemistry

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions

(1) નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:
☛ **B. Sc. Biotechnology (Sem. - II)**

Name of the Subject :
☛ **BT - 03 : Basic Biochemistry**

Subject Code No.: **1903001102030001**

Seat No.:

Student's Signature

- (2) Figures to the right indicate full marks.
(3) Draw neat and labelled diagrams wherever necessary.

Q. 1. Attempt the following questions in short. (Any Four) [08]

- 1) Define: Annotation
- 2) Composition of Primordial Soup.
- 3) What do you mean by dynamic steady state? Give Example.
- 4) Why ice floats on water? Justify
- 5) Explain about pH scale.

Q. 2. Attempt Any Two: [14]

- 1) What is Synthetic Cell? Explain in detail.
- 2) Basic idea about Biological Evolution.
- 3) How do enzymes aid in a chain reaction of chemical reactions?

Q. 3. Explain in detail Any Two: [14]

- 1) Discuss how living things transform energy.
- 2) Write on: Hydrogen bond and Van der Waals Interactions
- 3) Describe how work and energy are needed for both creation and maintenance.

Q. 4. Attempt Any Two of the following:

[14]

- 1) Write about weak base ionisation.
 - 2) What is the role of water as a reactant?
 - 3) How do buffers work? Give its types.
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