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(Printed Pages 2)

Roll No. ....

**Paper Code : 128702**

**B.Sc. 1<sup>st</sup> Year (Annual) (Regular) Main**

**Examination, 2023**

**Bio-Technology**

**(Bio-Physics)**

**102**

*Time : Three Hours ]*

*[Maximum Marks: 50*

**Note :** Attempt any **five** questions. Each question carries 10 marks.

1. What do you mean by diffusion?  
Describe the factors affecting the rate of diffusion. 10
2. Describe the surface tension by drop weight method. 10

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- ✓ 3. Explain in detail the Laws of Thermodynamics. 10
4. Write short notes on : 10  
(a) Stereo isomerism  
(b) Optical isomerism
- ✓ 5. Explain in detail the influence of biophysics in the process of photosynthesis. 10
6. Describe the sliding filament model of skeletal muscle contraction. 10
7. What steps are involved in vesicle recycling at the axon terminal? 10
8. What is signal transduction? Define the role of G protein. 10
9. Explain in detail about the properties of plasma membrane. 10
- ✓ 10. What is Enthalpy? How it is differ from Entropy. 10

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