B. Sc. (Micro.) -I Year

3489

B. Sc (Microbiology) Examination, May 2018 **Biophysics**

(B-106)

Time: Three Hours]

[Maximum Marks: 50

Note: Attempt any five questions. All questions carry equal marks.

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What is Chirality ? Explain the applications of Chirality in biomolecules. 2+8

Write short notes on the following:

5+5

- Relationship between Physics and Biology
- Properties of open system.

What are enzymes? Explain enzyme substrate interactions. 2+8

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Write short notes on the following:

5±5

- First law of thermodynamics
- (b) Conformational properties of enzymes.
- 5. What is photoreception? What are photoreceptor proteins? Discuss the different types of photoreceptors. 2+2+6
- What are biological compartments? Discuss the 6. use of electricity as a potential signal in various biological compartments. 3+7
- 7. Write short notes on the following: 5+5
 - Enzyme kinetics
 - Electrical properties of biological compartments.
- Explain biomechanics and discuss the biomechanics 8. of locomotory organs in vertebrates. 10
- Explain chemiosmotic coupling with special reference to photosynthesis. 10
- 10. Explain the mechanism of energy transfer during respiration. 10

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