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(20517) Roll No.

B.Sc.Micro.-I Yr.

3489

B.Sc. (Microbiology) Examination, May 2017

Bio-Physics

(B-106)

Time : Three Hours / Maximum Marks : 50

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

- 1 Explain chirality and uses of chirality in bio-molecules. 10
- 2. Write short notes on the following :
 - (i) Scope of Bio-Physics 5
 - (ii) Properties of open systems 5
- 3. (a) State the 'First and Second Laws' of thermodynamics. 2

P.T.O.

- (b) Discuss the applications of the laws of thermodynamics to cellular respiration and photosynthesis. 8

4. Describe the conformatinoal properties of enzymes. 10

5. Write short notes on the following :

- (a) Photoreception in vertelerates 5
- (b) Electrical activity of rhodopsin 5

6. Describe the physical aspects of photorecep-tion with special reference to Barterior-hodopsin. 10

7. Write short notes on the following :

- (a) Relationship between Physics and Biol-ogy 5
- (b) Electricity as a potential signal. 5

8. Explain biological compartments and describe the electrical properties of biological com-partments. 10 (2+8)

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9. Explain biomechanics and discuss the biomechanics of striated muscles. 2+8=10

10. Explain chemiosmotic couplings and describe biomechanics of cardiovascular system.

4+6=10

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