

2005 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

II B.TECH. I SEMESTER REGULAR EXAMINATIONS
BIO-CHEMISTRY
(BIO-MEDICAL ENGINEERING)

MAY 2005

TIME: 3 HOURS
MARKS: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Give a detailed description of the Galvanic cell and add a note on the molecular conductance. [16]
2. How do you determine the hardness of water. Give the significance of different methods of water treatment. [16]
3. What is the structure of Biological membrane. How does it control the transportation of substances from and into the cell. [16]
4. Write in detail about different properties of enzymes with suitable examples. [16]
5. Write an essay on protein synthesis. [16]
6. What is the mechanism behind Generation and conductance of nerve impulse. [16]
7. Write a note on the following:
 - (a) Uses of PVC
 - (b) Urine analysis
 - (c) Hysosome. [5+5+6]
8. What is the principle behind electrophoresis? How do you separate serum proteins by electrophoresis? [16]