

2005 JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY

II B.TECH I SEMESTER SUPPLYMENTARY EXAMINATIONS

BIO-CHEMISTRY

(BIO-MEDICAL ENGINEERING)

MAY 2005

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