

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY-2008**III B.TECH SUPPLEMENTARY EXAMINATIONS
PROTEIN ENGINEERING
(BIO-TECHNOLOGY)**

AUG/SEP -2008

TIME-3 HOUR
MARK-80**ANSWER ANY FIVE QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.**

1. Discuss about General properties of Proteins Secondary structure?
2. Write short notes on:
 - (a) Myoglobin
 - (b) Globular proteins
3. Justify statement "Final structure of protein is not determined by Gene structure but by the primary structure of protein".
4. Write short notes on:
 - (a) Zinc fingers
 - (b) Leucine zippers
5. Name the membrane protein which is present in Halobacterium salinarium ? Ex-plain about mechanisms of light driven proton pump in Bacteriorhodopsin?
6. (a) What are Immunoglobulins.
(b) Describe the structure of Immunoglobulin.
(c) Describe the various classes of Immunoglobulins and their properties.
7. Write short notes on:
 - (a) PROSITE
 - (b) BLOCKS
8. (a) What do you mean by protein design?
(b) What are the goals of protein design?