

II B.Tech I Semester(R05) Supplementary Examinations, May/June 2010
CELL BIOLOGY
(Bio-Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Enumerate the characteristics of a living Cell. [16]
2. Using suitable examples explain what are micro filaments. [16]
3. Explain the process of protein glycosylation occurring in the endoplasmic reticulum & golgi complex. [16]
4. Explain the difference between passive transport and active transport. Describe the action of the sodium-potassium pump. [16]
5. With respect to mitosis explain the importance of:
 - (a) Kinetochore
 - (b) Spindle apparatus. [8+8]
6. Discuss the general characteristics of cell differentiation. [16]
7. Describe the structure and function of a G-protein receptor and a generic G-protein. [16]
8. Define signal transduction and explain it briefly. [16]
