CODE NO: R050212303 SET NO. 4

2007 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

II B.TECH I SEMESTER REGULAR EXAMINATIONS CELL BIOLOGY (BIO-TECHNOLOGY)

(BIO-TECHNOLOGY)	
DVEMBER 2007 MAX MARKS: 80 TIME: 3 HOURS	
Answer any FIVE Questions All Questions carry equal marks	
1. With a neat labelled diagram explain the structure of a typical eukaryotic cell.	[16]
2. What property allows carbon compounds to exist in a number of forms and what properties of a carbon atom are critical to life?	[16]
3. What are the major functions of nucleus? How are nuclear pores important in protein trafficking?	[16]
4. Elaboraye on the role of symporters and Antiporters as transport proteins in co- transport of substances across Plasma membrane.	[16]
5. Describe the following - Cell cycle; cell plate; centrioles; centromere; sister chromatids; spindle fibers. [16])-
6. Using Hematopoietic system explain stem cell differentiation.	[16]
7. What do receptors accomplish for a cell? Explain.	[16]
8. Using a suitable example discuss the role of secondary messengers in signal tran duction.	S-