

**VIT[®]****Vellore Institute of Technology**
(Deemed to be University under section 3 of UGC Act 1956)**Continuous Assessment Test -1 (CAT-1) Fall Semester (2023-24)****Course Name & code:****Cell Biology and Genetics****BBIT204L****Programme Name & Branch:****B Tech, Biotechnology****Class Number: VL2023240101987 & VL2023240101985****Slot: B1+TB1****Faculty Name: Abul Kalam Azad Mandal & Rajasekaran C****Exam Duration: 90 Min****Maximum Marks: 50****General instruction(s):****Answer ALL the questions****Draw neat diagram wherever necessary**

Q. No.	Question	Max Marks	CO	BL
1.	Elucidate the structure and function of peroxisome and endoplasmic reticulum.	10	CO1	BL1
2.	What are different types of proteins present in the cell membrane? Describe their functions in the cell.	10	CO1	BL2
3.	Explain different type of filaments that composes the cytoskeleton. Compare their structure, composition, and function.	10	CO2	BL3
4.	How cell cycle is regulated by different types of cyclins & CDKs? Give a detailed account.	10	CO2	BL3
5.	Compare and expound the structure and function of different types of ATP driven pumps in a cell.	10	CO3	BL3

******* BEST WISHES *******