Name:

**Enrolment No:** 



## Odd Semester MTE Examination, December 2024 Faculty of Engineering, School of Civil, Biotechnology and Chemical Engineering Department of Biotechnology and Chemical Engineering B. Tech- 1st Vent

C	CI DYE1001	B. Tech- 1st Yeat		
		Course: Biology for Engineers	Semester: I	
Time: 1.5 hrs. Instructions: All questions are compulsory.			Max. Marks: 30	
Instru	Missing data	are compulsory. , if any, may be assumed suitably. allowed / not allowed.		
		SECTION A		
S.No.			Marks	CO
Q A1	Define reducing and n	ine reducing and non-reducing sugars with an example		CO1
Q A2	What form of cellulose is commonly used in household water filters, and why is it suitable for this purpose?			CO1
Q A3	what roles do rod and cone photoreceptor cells play in the image formed in the eye?			CO2
		SECTION B		
Q B1	Explain the process involved in DNA fingerprinting and its applications in forensic science.			CO1
Q B2	Describe the working principle of lipids as cleaning agents and explain their function in cleaning products.		14074	CO1
Q B3	What are the key properties of enzymes that make them suitable for engineering applications?		[4QX4 =16 Marks]	CO1
Q B4		hat is Electroencephalography, and how is it used to measure brain activity? Discuss its plications in detecting brain disorders.		CO2
		SECTION-C	i	
Q C1	Write a brief note on the classification of proteins based on their functions. Give three examples for each category and explain their roles.		1QX8 =8 Marks]	COI