Paper / Subject Code: 49001 / BIOCHEMISTRY

1T00413 - S.E.(BIOTECHNOLOGY)(Sem III) (CBSGS) / 49001 - BIOCHEMISTRY

		(3 Hours)	[Total Marks: 80
N.B.	1) 2)	Q.No. 1 is compulsory. Attempt any 3 questions from Q.No. 2 to 6.	
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Q1.	An	swer the following (any 4):-	[20]
	a.	What are Hormones? Explain the significance of Thyroid Horm	nones.
	b.	Give a brief account of triacylglycerol.	
	c.	Differentiate between a, b and z-DNA.	
	d.	State the First and Second Laws of Thermodynamics.	
	e.	How does binding energy help to lower the activation energy?	
Q2.		Give structure and functions of the following:	[20]
	a.	Keratin	
	b.	Amylopectin	
	c.	Phospholipids	
	d.	Ribosomes	
Q3.	a.	Explain the effect of pH and temperature on an enzyme catalyze	ed reaction [10]
	b.	Derive the Michaelis Menten Equation and double reciprocal pl	lot. [10]
Q4.		Describe the following pathways in detail:	[20]
	a.	Glycolysis	
	b.	Urea Cycle	
Q5.	a.	Explain the 3 stages of Fatty acid oxidation.	[10]
	b.	Give an account of the functioning of the Photosystems I and II	[10]
Q6.		Write short notes on:	[20]
	a.	Adrenaline	
	b.	Vit K	
	c.	Peptidoglycan	
	d.	Chylomicron	
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NO S	\$ C		