GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII • EXAMINATION – WINTER 2013

DE - SEIVIESTER-VII • EXAMINATION – WINTER 2015			
•	Subject Code: 170401Date: 26-1		
Subject Name: Enzymes and Proteins			
Time: 10:30 TO 01:00 Total Ma			:ks: 70
Instructions:			
		Attempt all questions. Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
Q.1	(a)		07
V .1	(a)	example.	07
	(b)	*	07
	()	, , , , , , , , , , , , , , , , , , ,	
Q.2	(a)		07
	(b)		07
		OR	07
	(b)	Explain various methods to determine protein structure.	07
Q.3	(a)	Define the term enzyme immobilization. Discuss physical and	10
2.0	(4)	chemical techniques for enzyme immobilization.	10
	(b)	· ·	04
		immobilization.	
		OR	
Q.3	(a)		
	(b)		
		model for allosteric regulation of enzyme.	
Q.4	(a)	Give significances of enzyme purification. Enlist and explain how one	07
C	()	can go for selection of purification technique depending upon enzyme	
		properties?	
	(b)		07
		characterization of any enzyme.	
Q.4	(a)	OR What do you mean by molecular chaperones? How Gro EL and Gro	07
Q.4	(a)	ES mediate the function of protein folding at cellular level?	07
	(b)		07
Q.5	(a)		07
	(b)		07
05	(-)	OR Define the term showed example techniques Discuss the minipals of	07
Q.5	(a)	Define the term chromatographic techniques. Discuss the principle of it. Enlist various chromatographic techniques with its characteristics	07
		features.	
	(b)		07
	(-)	industry.	
