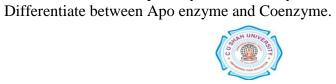
	Enrollmo	ent No:	Exam Seat No:			
		C.U.SHAH UI	NIVERSITY			
	Winter Examination-2018					
	Subject Name: Biochemistry					
	Subject (	Code: 4SC02BIC1	Branch: B.Sc (Microbiology)			
	Semester	:: 2 Date: 02/11/2018	Time: 02:30 To 05:30 Marks: 70			
	(2) I (3) I	ons:  Jse of Programmable calculator & any other instructions written on main answer book  Draw neat diagrams and figures (if necess  Assume suitable data if needed.	are strictly to be obeyed.			
Q-1	-	Attempt the following questions:		(14)		
Atte	a) b) c) d) e) f) g) h) i) j) k) l) m) empt any f	Define Gibbs free energy. Define micelles. Draw structure of amino acid Expand the NAD. Define fatty acids. Define peptide bond. Define epimer Write the name of any two water soluble Deficiency of Vitamin A causes Define saponification Define anomer. Name any two reducing sugars. Define Enzyme. Give the equation showing the relations four questions from Q-2 to Q-8				
Q-2		Attempt all questions		(14)		
	a)	Explain the lock-and-key and induced-fenzyme	fit models for binding of a substrate to an	<b>(7</b> )		
	<b>b</b> )	Write a short note on energy rich compo	ounds.	<b>(7</b> )		
Q-3	a) b) c)	Attempt all questions Differentiate between the $\alpha$ -helix and $\beta$ Write a short note on mutarotation with Draw a pyranose structure of glucose.		(14) (7) (4) (3)		
Q-4	ļ	Attempt all questions		(14)		
	a) b)	Write a short note on classification of er Differentiate between primary and secon		(7) (4)		



**(3)** 

Q-5		Attempt all questions	(14)
	a)	What assumptions were made for derivation of MM equation of enzyme kinetics? Derive Michaelis Menten equation.	<b>(7</b> )
	<b>b</b> )	Write a note on Peptidoglycan explaining the structure and function on the basis of bacterial cell wall.	(7)
Q-6		Attempt all questions	(14)
	a)	Write a short note on pyruvate dehydrogenase and lactate dehydrogenase.	<b>(7)</b>
	<b>b</b> )	Write short note on Vitamins D.	<b>(4)</b>
	<b>c</b> )	Define:	(3)
		i) Cellulose	
		ii) Active site	
		iii) Second law of Thermodynamics	
Q-7		Attempt all questions	(14)
	a)	Write a short note on disaccharides.	<b>(7)</b>
	<b>b</b> )	Explain the structure and function of triacyl glycerol.	<b>(4)</b>
	c)	Explain the structure and function of hemoglobin	(3)
Q-8		Attempt all questions	(14)
	a)	Describe the factor effect on enzyme activity.	<b>(7</b> )
	<b>b</b> )	Explain the diseases due to deficiency of any two fat soluble vitamins.	<b>(4)</b>
	c)	Difference between competitive and non-competitive.	(3)

