		• ,	CUSHAH	Exam Seat No: UNIVERSITY				
			Summer Exa	amination-2017				
	Subject	Name:	Principles of Biochemistry					
	Subject	Code: 5	SC01PBC1	Branch: M.Sc.(Microbiology)				
	Semeste	er:1	Date: 22/03/2017	Time: 10:30 To 01:30 M	larks : 70			
	Instruct	tions:						
•	(1)	Use of Pa	_	any other electronic instrument is prohi	ibited.			
		(2) Instructions written on main answer book are strictly to be obeyed.(3) Draw neat diagrams and figures (if necessary) at right places.						
			suitable data if needed.	seessary) at right places.				
O 1	SECTION – I							
Q-1	a.	_	t the Following questions the bond angle of H-O in wa	nter?	(07 1			
	b.		s false Sugar?		1			
	c.							
	d.							
	e.							
		f. Define Enzyme.g. Define Immobilization.						
	g.	Define	minoomzauon.		1			
Q-2		Attemp	t all questions		(14			
•	(a)		note on structure of carbohyo	drates.	7			
	(b)	Explain	importance of water as universal	ersal solvent and its structure.	7			
0. 2		Attoman	t all quastions	OR	(1.4			
Q-2	(a)	_	ot all questions note on structure of nucleic a	acide	(14 7			
	(a) (b)		note on structure of vitamins		7			
0.3	(8)		et all questions	and nacion acids.	(14			
U-3	(a)			nd in eukaryotic cell and discuss briefly				
Q-3	(b)	Discuss	Immobilization of enzymes.		7			
Q-3	(6)			OR				
Q-3 Q-3	(6)			determination of biopolymers.	(14			

SECTION – II

		SECTION II	
Q-4		Attempt the Following questions	(07)
	a.	Define Gibbs free energy.	1
	b.	What are different types of nucleic acids?	1
	c.	Define hormone.	1
	d.	Which linkage is found in starch?	1
	e.	Write H&H equation.	1



f.	Define catabolism.	1
g.	What is cofactor?	1
	Attempt all questions	(14)
(a)	Write a note on enzyme classification.	7
(b)	Write a note on Structural classification of amino acids.	7
	OR	
	Attempt all questions	(14)
(a)	Explain classification of protein structure.	10
(b)	Explain mechanism of enzyme action.	4
	Attempt all questions	(14)
(a)	Write note on factors affecting enzyme action.	7
(b)	Write note on post tracriptional modification.	7
	OR	
	Attempt all Questions	
	Explain photosynthesis and respiration.	(14)
	(a) (b)	 g. What is cofactor? Attempt all questions (a) Write a note on enzyme classification. OR Attempt all questions (a) Explain classification of protein structure. (b) Explain mechanism of enzyme action. Attempt all questions (a) Write note on factors affecting enzyme action. (b) Write note on post tracriptional modification. OR Attempt all Questions OR Attempt all Questions

