## Paper / Subject Code: 65703 / Biochemistry-I

Q.P.Code: 40336

	(3 hours)	Total Marks: 70	
N.B.: All questions are co	ompulsory		£ 20 00 00 00 00 00 00 00 00 00 00 00 00
Q.1 A. Draw the structure of $\beta$ - D	-galactose by Fischer Projec	tion Formula	
b. Draw the structure of $\beta$ - D	-ribose by Haworth Projection	on Formula	
c. Draw structure of Sphingo	myelin		
d. Explain effect of Tempera	ture on enzyme activity		
e. Give the Mechanism of Re	enin-Angiotensin converting	enzyme inhibitors.	
f. Name the active form of V	it-B <sub>3</sub> .		1
g. Explain Rancidity			1
h. What is Reversible enzym	e inhibition		2
i. Define vitamin and enlist f	at soluble vitamins		2
j. Classification of amino aci	d based on Nutritional requir	rement	2
k. Define anabolism with exa	ample		2
Q.2 a. Write a note on primary an	d tertiary structure of Protein	n.	3
b. Explain NADH2 as Energy	Carrier		3
c. Discuss Competitive enzyn	ne inhibition using Michelis M	Ienten and Lineweaver Burk plot	3
d. Give the role of Liver in di	gestion and absorption of Fo	od	2
Q.3 a. Compare glycogen and sta	rch in terms of structure and	function	3
b. Write a note on Vitamin-E	or Vitamin-K.		3
c. Write a note on Biotin			3
d. Justify" Oxidation as Source	e of Energy in Biological sy	stem"	2
Q.4a. Classify amino acids based	on their chemical structure v	with example of each class (Struc	ctures
not required)			3
b. Write a note on Lipoprotein	is		3
c. Write a note on Vitamin-B <sub>2</sub>	or Vitamin-B <sub>9</sub>		3
d. Explain thermodynamically	Favorable Reactions		2

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Q.5a. Write a note on Disaccharides	3
b. Explain effect of substrate concentration on enzyme activity	3
c. Explain cascade system for enzyme regulation	3
d. Discuss biochemical role of Ascorbic acid	2
Q.6 a. Write a note on Vitamin-B <sub>1</sub> or Vitamin-B <sub>3</sub>	3
b. Explain Post-translational Modification	3
c. Write reaction catalysed and name of an inhibitor for the following enzymes	3
1) Monoamine oxidase 2) Dihydrofolate reductase	
d. Draw structure of Arachidonic acid	2