Seat No: \_\_\_\_

## PARUL UNIVERSITY FACULTY OF MEDICAL SCIENCE & RESEARCH M.B.B.S., Examination July - 2017

Enrollment No:\_\_\_\_\_

Year: 1 Subject Code: 19100105 Subject Name: Biochemistry-I		Date: 24/07/2017	Date: 24/07/2017 Time: 10:00 am to 12:30 pm	
	uctions:			
	tempt all questions from each section.			
	gures to the right indicate full marks.			
	ake suitable assumptions wherever necessary.			
4. W	tite section-A, section-B on separate answer sheets.			
	SECTI	ON	$-\mathbf{A}$	
Q.1	Describe Glycolysis (Glycolytic) pathway along with its significance, energetics & regulation			
Q.2	Discuss on: (any three)			(15)
	(a) Structure & functions of various phospholipids.			
	(b) Different factors affecting enzymatic activity.			
	(c) Biochemical role of vitamin A & its deficiency manifestations.			
	(d) Chemiosmotic theory & regulation of ATP syn	thes	s.	
	SECTI	ON	– B	
Q.1	Write short notes on: (any two)			(08)
	(a) Fatty liver & lipotropic factors.			
	(b) Competitive inhibition of enzyme with 2 suitable examples.			
	(c) Mechanism of action of insulin on blood glucose regulation.			
Q.2				(12)
	(a) Role of Vit.C in collagen formation & its deficiency manifestations.			
	(b) Role of cyt.P450 in xenobiotics.			
	(c) Mucopolysachharides & their significance.			
	(d) Isoenzymes as cardiac biomarker.		_	
	(e) Function of NAD+ as coenzyme with one suita	ble e	xample.	
<b>Q.3</b>	Answer in one word/MCQ:			(05)
	1. Lysosomes are -	(1)		
	(a) Power house of the cell		Bags of hydrolytic enzymes	
	(c) Protein synthesizing machine	(d)	Related to Storage of genetic-	
	2. The ensure helen size to close evidence ductors	:	information	
	2. The enzyme belonging to class oxidoreductase		Henshinses	
	<ul><li>(a) Glycogen synthase</li><li>(c) Cytochrome Oxidase</li></ul>	(b)	Hexokinase Aldolase	
		(d)	Aldolase	
	<ul><li>3. In myocardial infaction of recent origin-</li><li>(a) Serum CK-MB shows a marked rise</li></ul>	(h)	Rise in ALT is diagnostic	
	(c) Serum LDH 1 level is lower than LDH 2	(b) (d)		
	(c) Setuli LDH Tievel is lower than LDH 2	(u)	diagnostic	
	4. The most potent natural anti-oxidant is-			
	(a) Vit.A	(b)	Vit. C	
	(c) Vit. B3	• •	Vit. E	
	5. The hormone acts through cAMP is -	. /		
	(a) Glucocorticoids	(b)	Estrogen	
	(c) Catacholamine	(d)	Insulin	