Seat No: \_\_\_\_\_

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

## **PARUL UNIVERSITY** FACULTY OF MEDICAL SCIENCE & RESEARCH

M.B.B.S Supplementary Examination September - 2017

Year: 1	Examination September - 2017 Date: 28/09/2017		
Subject Code: 19100105		Time: 10:00 am to 12:30 pm	
Subject Name: Biochemistry Paper-I	Total Marks: 50		
Instructions:			
1. Attempt all questions from each section.			
2. Figures to the right indicate full marks.			
3. Make suitable assumptions wherever necessary.			
4. Write section-A, section-B on separate answer sheet	8.		
SECT	ΓΙΟΝ – Α		
Q.1 Enumerate the components of electron transport		(10)	
site-specific inhibitors. Mentions two examples o	f Uncouplers. $(4+3+2+1=10)$		
Q.2 Discuss on: (any three)		(15)	
(a) HMP shunt pathway.			
(b) Classify Enzymes with suitable examples.			
(c) Fatty liver			
(d) Structure & Functions of various phospholipic	ds.		
SEC	ΓΙΟΝ – B		
Q.1 Write short notes on: (any two)		(08)	
(a) Mechanism of action of insulin on blood gluce	ose regulation.		
(b) Functions of Vitamin A.			
(c) Biologically important compounds derived fro	om cholesterol.		
Q.2 Write briefly on: (any four)		(12)	
(a) Isoenzymes as cardiac biomarker.			
(b) Mitochondria			
(c) Function of FAD+ as coenzyme with one suit	able example,		
(d) Fatty acid synthesis enzyme complex			
(e) Give the difference between Glycogen / Starc	h.		
Q.3 Answer in one word/MCQ		(05	
1. The repeating unit in hyaluronic acid:			
(a) Glucuronic Acid & Galactose	(b) Glucuronic Acid & Galactosamine		
(c) Glucuronic Acid & N-acetyl Galactosamine	(d) Glucuronic Acid & N-acetyl Glucosamine		
2. Fluidity of membranes depends on			
(a) Nature of Fatty Acid	(b) Concentration of Proteins		
(c) Glycosylation of Proteins	(d) Membrane Pumps		
3. Which is involved in calcium signaling?	$\mathbf{r}$		
(a) Calmodulin	(b) Diacyl Glycerol		
(c) Phosphatidyl Inositol Diphosphate	(d) Guanyl Cyclase		
4. Cholecalciferol is Synthesized in:			
(a) Liver	(b) Skin		
(c) Kidney	(d) Intestinal Mucosa		
5. If the product is more toxic than original comp	ound, which of the following terms is used?		
(a) Biotransformation	(b) Detoxification		
(c) Bio-Activation	(d) Conjugation		