

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF MEDICINE
M.B.B.S, September-2019 Examination

Year: 1
Subject Code: 19100105
Subject Name: Biochemistry Paper-I

Date: 30/09/2019
Time: 10:30 Am To 1:00 Pm
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, section-C on separate answer sheets.

SECTION – A

Q.1 Structured Essay Question: (No Choice) (10)

1. Describe Glycolysis (Glycolytic) pathway along with its significance, energetics & regulation.

Q.2 Discuss on: (Attempt any Two) (08)

1. Fatty liver & lipotropic factors.
2. Metabolic role of Vitamin C.
3. Explain mechanism of action of steroid hormone.

SECTION – B

Q.1 Discuss On: (Attempt any Three) (15)

1. Describe the requirement, sources, metabolic functions and deficiency manifestations of vitamin A.
2. Mechanism of action of insulin on blood glucose regulation.
3. Enzyme complexes of Electron Transport Chain.
4. Classify Enzymes with suitable examples.

SECTION – C

Q.1 Write Briefly On: (Attempt any Four) (12)

1. Phase II reactions in Xenobiotics.
2. Phospholipids
3. Give difference between Starch & Glycogen.
4. Cardiac Biomarkers
5. PUFA

Q.2 MCQ: (05)

1. Organs dependent on glucose for energy are
 - a. Brain and erythrocytes
 - b. Adipose tissue and kidney
 - c. Liver and muscles
 - d. None of the above
2. Marker of acute pancreatitis:
 - a. Ligase
 - b. Lipase
 - c. Enolase
 - d. Hydrolase
3. Lysosomes are
 - a. Protein synthesizing machine
 - b. Related to storage of genetic information
 - c. Bags of hydrolytic enzymes
 - d. Power house of cell
4. All of the following coenzymes participate in the transfer of hydrogen and electron Except;
 - a. NAD⁺
 - b. NADP⁺
 - c. FAD
 - d. PLP
5. Main function of Vitamin E :
 - a. Blood Coagulant
 - b. Antioxidant
 - c. Both of the above
 - d. None of the above