Seat No:	Enrollment No:

PARUL UNIVERSITY

FACULTY OF MEDICAL SCIENCE & RESEARCH

M.B.B.S., Examination July - 2017

Year: 1 Date: 24/07/2017 **Subject Code: 19100105** Time: 10:00 am to 12:30 pm Subject Name: Biochemistry-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 sheets. SECTION - A **O.1** Describe Glycolysis (Glycolytic) pathway along with its significance, energetics & regulation. (10)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 synthesis. SECTION - 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 Write briefly on: (any four) (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 suitable example. 0.3 Answer in one word/MCO: (05)1. Lysosomes are -(a) Power house of the cell (b) Bags of hydrolytic enzymes (d) Related to Storage of genetic-(c) Protein synthesizing machine information 2. The enzyme belonging to class oxidoreductase is -(a) Glycogen synthase (b) Hexokinase (c) Cytochrome Oxidase (d) Aldolase 3. In myocardial infaction of recent origin-(a) Serum CK-MB shows a marked rise (b) Rise in ALT is diagnostic (c) Serum LDH 1 level is lower than LDH 2 (d) Rise in y glutamyl transferase isdiagnostic 4. The most potent natural anti-oxidant is-(b) Vit. C (a) Vit.A (c) Vit. B3 (d) Vit. E 5. The hormone acts through cAMP is -(a) Glucocorticoids (b) Estrogen (c) Catacholamine (d) Insulin