

Biochemistry Theory Preliminary Examination

2nd Year B. Physiotherapy, Govt. Physiotherapy College, Surat.

Date: / /2018

Time: 2 Hours

Total Marks: 40

1. **Long Question (Any One)** **(10)**
 1. Write Haemoglobin degradation pathway. Explain Types and Causes of Jaundice. Explain how to differentiate type of Jaundice by serum and urine examination.
 2. Describe different type of Protein structure. Explain primary structure's functional relationship with relevant examples (e.g. Haemoglobin, Insulin, Enzyme,).

2. **Short notes. (Any three out of four)** **(15)**
 1. Effect and Type of Mutation.
 2. Name Acute and Chronic complication of Diabetes Mellitus & Explain Biochemical explanation of Diabetic Ketoacidosis
 3. Energy production from saturated even chain fatty acid (palmitic acid) through beta oxidation pathway
 4. Type of Enzyme Inhibition. Explain with example.

3. **Justify following sentence. (Any 5 out of 6)** **(15)**
 1. Sudden withdrawal of Statin drugs will cause Hypercholesteromia.
 2. Vitamin C deficiency can cause scurvy
 3. "Alcohol inhibit gluconeogenesis,so it causes hypoglycemia,if person is on starvation." explain it.
 4. Ammonia is toxic to brain
 5. Alpha 1 anti-trypsin deficiency cause emphysema.
 6. Anti-inflammatory action of aspirin is reversible,but anti-platelet action is irreversible.