

Biochemistry Theory Preliminary Examination

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

Date: / /2017

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. Write type, difference and diagnosis diabetes mellitus. Enumerate complication of Diabetes mellitus and Explain biochemical reason and effect of diabetes ketoacidosis.

2. **Short notes. (Any three out of four)** **(15)**
 1. Write pathway for beta oxidation of palmitic acid (16 carbon-Saturated fatty acid) and its energy production.
 2. Fates of Tryptophan & its related disorder.
 3. Difference between Competitive inhibition and Non- Competitive inhibition. (give relevant example)
 4. t-RNA & Genetic codon

3. **Justify following sentence. (Any 5 out of 6)** **(15)**
 1. The inhibition of COX-1 can be overcome in endothelial cells but not in platelets while patient is taking low dose Aspirin.
 2. Chronic alcoholism can precipitate gouty arthritis.
 3. Blood Buffers act quickly but not permanently.
 4. Creatine is used to improve performance of athletes
 5. Eicosapentaenoic acid and docosahexanoic acids in food are good for health
 6. "Mutations are always harmful." True or False, Explain it.