

**Biochemistry Theory Preliminary Examination**  
**2<sup>nd</sup> Year B. Physiotherapy, SPB Physiotherapy College, Surat.**

**Date: / /2018**

**Time: 2 Hours**

**Total Marks: 40**

- 1. Long Question (Any One) (10)**
  1. Overview of Tyrosine & Phenylalanine metabolism. Biochemical explanation of Phenylketonuria, Alkaptonuria and albinism.
  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. Difference between Competitive inhibition and Non- Competitive inhibition. Explain competitive inhibition in detail with relevant example.
  2. Genetic codon
  3. Type and Function Lipoproteins & Apo- lipoproteins
  4. Molecular and Biochemical explanation for pathogenesis of Sickle cell disease
  
- 3. Justify following sentence. (Any 5 out of 6) (15)**
  1. "Mutations are always harmful." True or False, Explain it.
  2. Chronic alcoholism can precipitate gouty arthritis.
  3. Creatine is used to improve performance of athletes
  4. High HDL level is decrease risk of coronary heart disease.
  5. Eicosapentaenoic acid and docosahexanoic acids in food are good for health.
  6. Ammonia is toxic to brain.