

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

Date: / /2017

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. Enumerate factor affecting Enzyme activity. Explain type of enzyme inhibitions with examples in detail. Explain Difference in Function of Glucokinase and Hexokinase on bases of it's  $V_{max}$  and  $K_m$ .

**2. Short notes. ( Any three out of four) (15)**

1. Post-transcription modification.
2. Zwitter ion.
3. Define Protein Denaturation. Give It's significant & causative factor.
4. Function of Phospholipids.

**3. Justify following sentence. (Any 5 out of 6) (15)**

1. Why ORS contain glucose and NaCl?
2. Hyperkalemia can occur in Metabolic acidosis.
3. Folic acid, vitamin B12 and pyridoxime phosphate is use to reduce homocysteine level.
4. Pre-mature baby can suffer from Acute Respiratory Distress Syndrome.
5. Bile salts are detected in the urine of obstructed jaundice.
6. Lead inhibit heme synthesis.