

**Biochemistry Theory Preliminary Examination**  
**2<sup>nd</sup> Year B. Physiotherapy, SPB 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 types of Acid Base Balance. Explain Renal buffer mechanism in detail. Enumerate causes of Acidosis and Alkalosis.
  
- 2. Short notes. ( Any three out of four) (15)**
  1. Polyol pathway and it's significant
  2. Von Gierke's Disease
  3. Digestion and absorption of lipid
  4. Genetic codon
  
- 3. Justify following sentence. (Any 5 out of 6) (15)**
  1. Dextran is use as plasma volume expander
  2. HMP shunt pathway is important to RBCs
  3. Uncontrolled diabetes mellitus leads to neuropathy & retinopathy.
  4. HbS move slower than HbA in alkaline gel electrophoresis.
  5. Orlistat (pancreatic and hepatic lipase inhibitor) treatment is supplemented with lipid soluble vitamins.
  6. Aspirin has short anti-inflammatory action while longer anti-platelet action.