

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

**Date: / 06 /2019**

**Time: 2 Hours**

**Total Marks: 40**

- 1. Long Question (Any One) (10)**
  1. Explain Transportation – Detoxification of Ammonia with urea cycle. And Explain “why increase ammonia is toxic to brain?”
  2. Write type of oxidation of fatty acid. Give it’s difference. Write pathway for beta oxidation of palmitic acid (16 carbon-Saturated fatty acid) and it’s energy production.
  
- 2. Short notes. ( Any three out of four) (15)**
  1. Molecular and Biochemical bases of Thalassemia.
  2. Effect of Alcoholism on gluconeogenesis as well as on beta oxidation of fatty acid.
  3. Risk factor for Atherosclerosis
  4. Advance Glycated End product
  
- 3. Justify following sentence. (Any 5 out of 6) (15)**
  1. Blood Buffers act quickly but not permanently.
  2. Primaquine administration in G6PD deficient patient can precipitate hemolytic anaemia.
  3. Estimation of C-Peptide is better parameter to differentiate IDDM & NIDDM in compare to insulin.
  4. Mutations are not always harmful.
  5. Pyridoxal phosphate deficiency can cause pellagra.
  6. Creatine is use to improve performance of athletes