

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**  
**Pharm.D, April 2019 Examination**

**Year: 1****Subject Code: 08207103****Subject Name: Medicinal Biochemistry****Date: 19/04/2019****Time: 10:00 am to 1:00 pm****Total Marks: 70****Instructions**

1. Figures to the right indicate maximum marks.
2. Make suitable assumptions wherever necessary.

**Q.1 Essay Type Questions. (any 2 out of 3) (15 Marks Each) (30)**

1. Describe in detail citric acid cycle and calculate its energetics.
2. Describe in detail beta oxidation with carnitine shuttle pathway and calculate its energetics.
3. Describe in detail Urea cycle and its disorders and calculate its energetics.

**Q.2 Short Essay Type Questions. (any 4 out of 5) (5 Marks Each) (20)**

1. Define cell. Enlist transport mechanisms in cell membrane. Describe any one in brief.
2. Write in detail reactions of ketogenesis.
3. Write in detail reactions of glycogenolysis.
4. Write in detail about oxidative phosphorylation.
5. Write in detail about DNA replication.

**Q.3 Short Answers. (2 Marks Each) (20)**

1. Classify enzymes.
2. Write functions of liver.
3. Define Deamination and Decarboxylation.
4. Write about genetic code.
5. Write about Hormonal regulation of carbohydrate metabolism.
6. Enlist kidney functions test and describe any one.
7. Write about co-enzymes involved in biological oxidation.
8. What is SGPT and SGOT ?
9. Write about Radio immuno assay (RIA) method.
10. Write about electrolytes.