

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**  
**B.Pharm. Summer 2018-19 Examination**

**Semester: 6****Subject Code: 08101352****Subject Name: Pharmaceutical Chemistry-VIII (Biochemistry-II)****Date: 04/04/2019****Time: 10:00 am to 1:00 pm****Total Marks: 75****Instructions:**

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

**Q.1 Essay type Questions. (Any 2 out of 3) (10 marks each)****(20)**

1. Define And Explain :ETC ,Transcription, Co-enzymes, allosteric, regulation, genetic code.
2. a) Define glycolysis. Explain reaction and regulation of glycolysis.  
b) Write note on ketone bodies.
3. a) Explain primary and secondary structure of protein.  
b) Discuss reaction of proteins.

**Q.2 Short Essay type Questions. (Any 7 out of 9) (5 marks each)****(35)**

1. Write a short note on citric acid cycle.
2. Explain about beta oxidation of fatty acids.
3. Write a short note on vitamins as a Co-enzymes and give its significance.
4. Discuss Biochemical roles of vitamins with details of their function.
5. Define Oxidative phosphorylation. Discuss chemiosmotic hypothesis.
6. Discuss component of protein synthesis.
7. Write a note on galactose metabolism.
8. Explain in detail about biosynthesis of DNA.
9. What is metal as Co-enzymes? Explain in detail.

**Q.3 Answer in short. (2 marks each)****(20)**

1. Write a short note on PCR.
2. Classify and explain Fatty acids.
3. Enlist techniques used in Purification of Protein and explain any one.
4. Write a short note on DNA replication.
5. Write about DNA repair Mechanism.
6. Write a short note on Glycogenolysis.
7. Explain Electrophoresis.
8. Define the terms
  - (i) Biological Oxidation
  - (ii) Nucleotides
9. Write a short note on Spectrophotometry.
10. Write a short note on Translation.