Seat No: Enrollment No:

PARUL UNIVERSITY FACULTY OF PHARMACY

B.Pharm. Winter 2018-19 Examination

Semester: 6 Date: 26/11/2018

Subject Code: 08101352 Times: 02:00 pm to 05:00 pm

Subject Name: Pharmaceutical Chemistry-VIII (Biochemistry-II)

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. Explain Krebs-Henseleit cycle with structure with its metabolic disorders.
- 2. Explain Pentose phosphate pathway with all necessary structures.
- 3. Write a short note on saturated fatty acid.

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

(35)

- 1. Give a note on β -oxidation of fatty acids with energetic.
- 2. Write about biosynthesis and utilization of ketone bodies.
- 3. Define oxidative Phosphorylation and explain with mechanism.
- 4. Write a note of centrifugation and chromatography in biochemistry.
- 5. Give detailed account on enzymes involved in biological oxidation.
- 6. Define protein synthesis. Write a note on inhibitors of protein synthesis.
- 7. Discuss in detail about cholesterol biosynthesis.
- 8. What is PCR? Write short note on PCR & its significance.
- 9. Give a details note on Electrophoresis techniques.

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

(20)

- 1. What are the possible causes for DNA damage?
- 2. Write a note on process of replication of DNA.
- 3. Discuss Gene expression in eukaryotes in detail.
- 4. Differentiate following pairs.
 - (i) Alpha oxidation & Omega oxidation.
- 5. Differentiate following pairs.
 - (i) Fatty acid synthesis and Beta oxidation.
- 6. Write a note on Gluconeogenesis.
- 7. Describe the reaction of Galactose metabolism.
- 8. Write about the structure and coenzyme activity of Riboflavin.
- 9. Give the difference between saturated fatty acid and Unsaturated fatty acid.
- 10. Explain physiological significance of vitamin E.