

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

Semester: 5**Subject Code: 08101302****Subject Name: Pharmaceutical chemistry-VI (Biochemistry-I)****Date: 30/04/2019****Time: 10:00 am to 01:00 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 enzyme. Classify it with examples. Write a note on factors affecting enzyme activity.
2. Explain structure of glucose and write reactions of monosaccharides.
3. Describe structure of protein.

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

1. Classify amino acid with examples and write its physicochemical properties.
2. Write a note on enzyme inhibition.
3. Classify lipid and write its functions.
4. Write properties of fatty acid.
5. Describe structure of DNA.
6. Explain urea cycle.
7. Write a note on purine biosynthesis.
8. What is transamination? Explain it.
9. Classify high energy compound and describe ATP-ADP cycle.

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

1. Describe shortly Michaelis - Menten constant.
2. What are epimers?
3. What do you mean by Mutarotation?
4. What is catabolism and anabolism?
5. Write a note on metabolic disorders of urea cycle.
6. Nitrogen Balance.
7. Rancidity.
8. Tautomerization.
9. Write scope of biochemistry.
10. Compare prokaryotic and eukaryotic cell.