

PARUL UNIVERSITY
FACULTY OF PHARMACY
B.Pharm. Winter 2019-20 Examination

Semester: 5**Subject Code: 08101302****Subject Name: Pharmaceutical chemistry-VI (Biochemistry-I)****Date: 22/11/2019****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. Describe the classification and reaction of carbohydrates along with their structure and suitable example.
2. Describe classification, mechanism of enzyme action and explain factor affecting enzyme activity.
3. Explain in details about urea cycle along with its regulation and write a note on purine biosynthesis.

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

1. Explain in details about enzyme inhibition.
2. Describe chemical and physical properties of amino acids.
3. Explain in details about classification of proteins.
4. Write a note on end group of analysis for determination of amino acid sequence.
5. Describe the structure of DNA
6. Explain classification and function of lipids.
7. Explain in details about amino acid pool.
8. Explain the types of metabolic reaction, anabolism and catabolism.
9. Explain physicochemical properties and color reaction of amino acid.

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

1. Write a note on allosteric regulation.
2. Write a short note on denaturation.
3. Write a short note on functions of carbohydrates.
4. Write a note on properties of fatty acid
5. Write a short note on classification of high energy compound.
6. Explain biological roles of RNA.
7. Write a short note on functions of proteins.
8. Write a note on transamination.
9. Explain the terms: mRNA, rRNA.
10. Write a note on nitrogen balance.