

PARUL UNIVERSITY
FACULTY OF PHARMACY
Pharm.D November – 2019 Examination

Year: 1**Subject Code: 08207103****Subject Name: Medicinal Biochemistry****Date: 27/11/2019****Time: 10:00 am to 01:00 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 Mark Each) (30)

1. What are enzymes? Write an account of the various factors affecting enzyme activity.
2. Describe briefly the citric acid cycle and its significance.
3. Describe the components of respiratory chain and discuss the oxidation of NADH.

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

1. Define coenzymes. Write briefly on the role of coenzymes in enzyme action.
2. Explain HMP shunt pathway and write its significance.
3. Discuss the diseases caused due to glycogen storage.
4. How can ATP be synthesized? Discuss ATP – ADP cycle and mention its biological significance.
5. Describe the metabolism of phenyl alanine.

Q.3 Short Answers. (2 Mark Each) (20)

1. Define active and passive transport.
2. Differentiate between competitive and non-competitive inhibition.
3. Describe the tests for hepatic dysfunction.
4. Discuss the diseases caused due to defective metabolism of lipids.
5. Differentiate between transamination and deamination.
6. Explain the metabolic disorders of glycine.
7. Describe the tests to assess renal function.
8. Define gluconeogenesis and glycogenolysis.
9. Write the principle of radio immuno assay technique.
10. Discuss the disorders of purine metabolism.