

PARUL UNIVERSITY
FACULTY OF PHARMACY
Pharm. D. Examination, May 2018

Year: 1**Subject Code: 08207103****Subject Name: Medicinal Biochemistry****Date: 11/05/2018****Time: 10:00 am to 1:00 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 Marks Each) (30)

1. Define enzymes. Give its classification, factors affecting enzyme activity, mechanism of enzyme action and enzyme inhibition.
2. Give detail notes on glycogenolysis, glycogenesis and glycogen storage diseases.
3. Explain protein synthesis and inhibition of protein synthesis along with mutation and repair mechanism.

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

1. Write a note on ELISA.
2. Explain in detail: Citric acid cycle (TCA).
3. Explain mechanism for oxidative phosphorylation.
4. What are NPN constituents? Discuss creatinine clearance test in detail.
5. Explain urea cycle & its metabolic disorder.

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

1. Define catabolism and translation.
2. Explain importance of water balance in body fluid.
3. Discuss active transport mechanism across cell membrane in brief.
4. Write a brief note on glycolysis.
5. What is coenzyme? Explain its biochemical role.
6. Give a test for hepatic function.
7. Explain DNA replication in brief.
8. Explain dye tests for excretory functions of liver in brief.
9. Explain test for Urinary tract calculi (stone) in brief.
10. Describe ketogenesis in brief.