

**First Year Pharm D Degree Regular/Supplementary Examinations
September 2024**

Medicinal Biochemistry

Time: 3 Hours

Total Marks: 70

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(3x10=30)

1. Define glycolysis. Describe the biochemical pathway for the breakdown of glucose to pyruvate and lactate. Write about the energetics.
2. Explain the metabolic pathway for the biosynthesis of the pyrimidine nucleotides.
3. Elaborate on the following disorders associated with lipid metabolism
 - a) Atherosclerosis
 - b) Fatty liver

Short notes:

(8x5=40)

4. Write a note on ATP with its biological significance.
5. What are isoenzymes. Describe their diagnostic applications.
6. Explain briefly about Glycogen storage disease.
7. Discuss the tests for NPN constituents.
8. What is radioimmune assay. Give its principle and applications.
9. Principle involved in the method for estimation of chlorides.
10. Discuss the test to assess the metabolic and detoxification capacity of liver.
11. Explain the transamination reactions involved in the catabolism of amino acids.
