

VINAYAKA MISSION'S RESEARCH FOUNDATIONS
(Deemed to be University), SALEM

Pharm.D DEGREE EXAMINATION - September 2021
First Year

MEDICINAL BIOCHEMISTRY

Time: Three hours

Maximum: 70 marks

I. Write essays on any **TWO** questions: (2 x 15 = 30)

1. State glycolysis. Describe the biochemical pathway for the breakdown of glucose to pyruvate and lactate. Explain about the energetics.
2. Explain about factors affecting enzyme activity and about coenzymes and its biological role.
3. Discuss about various functions of liver and elaborate about any two types of liver function tests.

II. Write short answers on any **SIX** questions: (6 x 5 = 30)

4. Explain about ATP and its biological significance.
5. Discuss about Urea cycle.
6. Write note on transport process across the cell membranes.
7. Explain about Cholesterol and its functions.
8. Write note on Porphyrin.
9. Write note on determination of sodium in body fluids.
10. What are ketone bodies? Explain the development and importance of ketone bodies?
11. Describe about genetic code and its characteristic features.

III. Write short notes on any **FIVE** question: (5 x 2 = 10)

12. What are bile salts?
13. Explain about Michaelis – Menten equation.
14. Describe the significance of HMP Shunt pathway.
15. Describe about unsaturated fatty acids with examples.
16. What are nucleotides? Name four nucleotides.
17. Write note on urinary tract calculi.
