

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

Pharm.D DEGREE EXAMINATION - August 2018
First Year

MEDICINAL BIOCHEMISTRY

Time: Three hours

Maximum: 70 marks

I. Write essays on any **TWO** questions: (2 x15 = 30)

1. Define glycolysis. Explain the process of glycolysis and write its significance.
2. Describe the factors affecting enzyme action and applications of iso-enzymes.
3. Explain a) Ketogenesis b) Fatty Liver

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

4. Describe the catabolism of purine nucleotides.
5. Write a note on oxidative phosphorylation.
6. Define clearance. Explain creatinine clearance.
7. Explain about cyclic AMP and its biological significance.
8. What is the importance of urea cycle? Explain along with reactions.
9. Write a note on the tests to determine liver function.
10. Explain the principle involved in radio immunoassay along with its application.
11. Describe electron transport chain.

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

12. Give two examples each for bile salts and bile pigments.
13. What is SGOT & SGPT?
14. Write the structure and any one identification test for sucrose.
15. Mention the normal blood levels of glucose and cholesterol.
16. Write the functional difference between NADH & NADPH.
17. What is nitrogen balance?
