

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

Pharm.D DEGREE EXAMINATION - July 2019
First Year

MEDICINAL BIOCHEMISTRY

Time: Three hours

Maximum: 70 marks

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

1. Describe oxidation of fatty acids. Add a note on the energetic of β - oxidation. (7+8)
2. Explain the major steps involved in the messenger RNA transcription.
3. Define HMP shunt. Explain in detail about HMP shunt with its significance. (3+12)

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

4. Explain the mechanism of enzyme action.
5. Explain the principle involved in ELISA technique along with its applications.
6. Describe the catabolism of purine nucleotides.
7. Write short note on the biological significance of cholesterol.
8. Write the mechanism of oxidation phosphorylation.
9. Mention about bilirubin formation and its normal serum and urine levels.
10. Write about determination of chlorides and bicarbonates in the body fluids.
11. Describe in brief about cyclic AMP along with its significance.

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

12. Define glycogenolysis.
13. What are nucleotides?
14. Mention some biological roles of aminoacids.
15. What is nitrogen balance?
16. Write about the laboratory tests for creatinine.
17. Define Atherosclerosis.
