

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

**Pharm.D DEGREE EXAMINATION - February 2020  
First Year**

**MEDICINAL BIOCHEMISTRY**

Time: Three hours

Maximum: 70 marks

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

1. Explain in detail about the reaction sequence of glycolysis along with its energetics.
2. Explain the de-novo biosynthesis of urine nucleotides.
3. Explain the classification, chemical nature and the biological role of proteins.

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

4. Explain the principle involved the applications of radio immunoassay.
5. Define transamination. Write its mechanism.
6. Write about Van den Bergh reaction.
7. Explain ketolysis along with its significance.
8. Write briefly about the tests to assess liver function.
9. Write a note on energy rich compounds.
10. Write the reactions involved in urea cycle and its metabolic disorders.
11. Explain the biological significance of Adenosine Triphosphate (ATP).

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

12. What is porphyria?
13. Write the normal level and functions of sodium as an electrolyte.
14. What is normal levels of HDL and LDL cholesterol?
15. Mention the inhibitors of ETC.
16. Write short notes on jaundice.
17. Write short notes on galactose tolerance test.

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