

**VINAYAKA MISSION'S RESEARCH FOUNDATION (DU), SALEM**  
**B.SC (MEDICAL LAB TECHNOLOGY) DEGREE EXAMINATION -**  
**September 2021**  
**Third Year**  
**BIOCHEMISTRY - III**

Three Hours

Maximum: 75 marks

**I. Write an essay on any ONE of the following: (1 x 20 = 20)**

1. Discuss about the Regulation of pH and it's abnormalities.
2. Write the metabolism of phenyl alanine & write a notes on phenyl ketonuria.

**II. Write short notes on any TWO of the following: (2 x 10 = 20)**

3. Explain liver function test.
4. What are the degradation of body protein and Hyper ammonimea.
5. What are the diagnosis and usefulness of Recombinant DNA Technology.
6. Functions of lipid & normal range of lipid profile.

**III. Write short answers on any SEVEN of the following: (7 x 5 = 35)**

7. Write the normal range of LFT.
8. Explain the Renal Clearance Test.
9. Write the normal blood pH and it's metabolic abnormalities.
10. Explain gene therapy and it's applications.
11. Define Bio Statistics and it's importance in Research.
12. Write the brief notes on internal and external quality control.
13. Biosynthesis of urea
14. Name the isoenzymes and write the importance in clinical chemistry.
15. Respiratory acidosis and alkalosis.
16. Explain Inborn errors of metabolism.

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20)

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