

**VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM  
(Deemed to be University)****B.Sc. (MEDICAL LAB TECHNOLOGY) DEGREE EXAMINATION  
March 2019****Third Year****BIOCHEMISTRY - III**

Time: Three hours

Maximum: 75 marks

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

1. Give a detailed account on metabolism of VLDL and LDL. Mention the normal lipid profile level. Add a note on fatty liver.
2. Describe in detail about inborn errors in the metabolism of proteins with diagnosis and clinical significance.

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

3. Replication of DNA.
4. Regulation of acid base balance by buffers and kidney.
5. Different types of renal function tests.
6. ELISA and RIA.

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

7. Tumor markers.
8. Radio isotopes.
9. Gall stones.
10. Pancreatic hormones and their functions.
11. Hypothyroidism.
12. Essential amino acids.
13. Recombinant DNA technology.
14. Post transcription modifications.
15. Isoenzymes.
16. Bile salts.

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