

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

Time: Three hours

Maximum: 75 marks

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

1. Define Enzymes. Classify them with examples. Add a note on factors affecting enzyme activity.
2. Explain in detail about Glycolysis. Add a note on its regulation, inhibitors and energetics.

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

3. Gluconeogenesis.
4. Regulation of Blood calcium.
5. Heme synthesis and regulation.
6. Functions of vitamin E and K.

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

7. Spectrometry.
8. Protein- energy malnutrition.
9.  $K_m$  and  $V_{max}$ .
10. Thiamine and Riboflavin.
11. Galactosemia.
12. Glucose tolerance test.
13. Prostaglandins.
14. Functions of cholesterol.
15. Creatinine.
16. Functions of Immunoglobulin.

\*\*\*\*\*