

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

**DIPLOMA IN MEDICAL LAB TECHNOLOGY EXAMINATION
March 2019
First Year**

BIOCHEMISTRY - I

Time: Three hours

Maximum: 75 marks

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

1. Describe the standardization and estimation of blood glucose by GOD-POD method. Mention its clinical significance.
2. Write in detail about types, components and significance of centrifuge in clinical laboratory. Add a note on ultracentrifuge.

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

3. Laboratory safety management.
4. Write about pH, buffers and indicator-types and significance.
5. Polysaccharides and their importance.
6. Factors affecting enzyme activity.

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

7. High energy compounds.
8. Muscle proteins.
9. Functions of vitamin C.
10. Iron absorption.
11. Basal metabolic rate.
12. Clinically important enzymes.
13. Lab register and its maintenance.
14. Blood buffers.
15. Spectrophotometry.
16. Preparation and use of distilled water.
