

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

**B.Sc. (ALLIED HEALTH SCIENCES) & M. Sc (Integrated Programs in  
Cardiac Technology) DEGREE EXAMINATION - February 2020**

**First Year**

**BIOCHEMISTRY**

(Common to All)

Time: Three hours

Maximum: 75 marks

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

1. Write in detail about Citric acid cycle. Add a note on its regulation, inhibitors, energetic and amphibolic role of the pathway.
2. Describe in detail about chemistry, source, RDA, biochemical functions, metabolism, deficiency manifestations and toxicity of Vitamin D.

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

3. Factors affecting enzyme activity.
4. Polysaccharides.
5. Iron metabolism.
6. Liver function test.

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

7. Benedicts test.
8. Mitochondria.
9. Electrophoresis.
10. Functions of lipids.
11. Types of RNA.
12. Vitamin K cycle.
13. Anticoagulants.
14. Buffers.
15. Creatinine.
16. Hypothyroidism.

\*\*\*\*\*