

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

**DIPLOMA IN OPERATION THEATRE TECHNOLOGY AND  
ANAESTHESIA TECHNOLOGY EXAMINATION**

**August 2019**

**First Year**

**BIOCHEMISTRY**

Time: Three hours

Maximum: 75 marks

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

1. Describe in detail about the Glycolysis. Add a note on its regulation, inhibitors and energetic.
2. Write in detail about 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. Enzyme inhibition.
4. Functions and Deficiency manifestations of Vitamin A.
5. Define buffer. Write about types of blood buffers.
6. Regulations of Blood Calcium.

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

7. Basal Metabolic Rate.
8. Protein Energy Malnutrition.
9. Enzyme pattern in liver disease.
10. Essential Fatty Acids and its function.
11. Co-enzyme.
12. Molality and Molarity.
13. Balanced Diet.
14. Classification of Proteins.
15. Amphibolic role of Citric acid cycle.
16. Hyperkalemia.

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