

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

**B.Sc. (PHYSICIAN ASSISTANT) DEGREE EXAMINATION**

**March 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. Give a detailed account on regulation of blood glucose at fasting and fed state. Mention the normal blood glucose level. Add a note on hypoglycemia.
2. Describe in detail about source, RDA, functions, metabolism, synthesis deficiency manifestations and toxicity of Vitamin A.

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

3. VLDL and LDL metabolism.
4. Regulation of blood calcium.
5. Enzyme inhibition.
6. Structure of proteins.

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

7. Immunoglobulin – structure, types and functions.
8. Basal metabolic rate.
9. Electrophoresis.
10. Pancreatic hormones and their functions.
11. Lysosomes and peroxisomes.
12. Define pH and its normal range.
13. Neurotransmitters.
14. Cholesterol – structure and function.
15. Glucose tolerance test.
16. Functions of Vitamin C.