Sl.No. M22313 Course Code:3290102

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

DIPLOMA IN OPERATION THEATRE TECHNOLOGY AND ANAESTHESIA TECHNOLOGY EXAMINATION February 2020 First Year

BIOCHEMISTRY

Time: Three hours Maximum: 75 marks

I. Write an essay on any ONE of the following:

 $(1 \times 20 = 20)$

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

II. Write short notes on any TWO of the following:

 $(2 \times 10 = 20)$

- 3. LDL and HDL metabolism.
- 4. Factors affecting enzyme activity.
- 5. Define acid and base. Write about Renal regulation of pH.
- 6. Glucose Tolerance Test.

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

- 7. Henderson Hasselbalch equation.
- 8. Function and deficiency of Riboflavin.
- 9. Classification and functions of lipids.
- 10. Magnesium.
- 11. HbA1C.
- 12. Iso enzymes.
- 13. Benedicts test.
- 14. Essential amino acids and its function.
- 15. Vitamin K cycle.
- 16. Hyponatremia.