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

DIPLOMA IN OPERATION THEATRE TECHNOLOGY AND ANAESTHESIA TECHNOLOGY EXAMINATION March 2019 First Year

BIOCHEMISTRY

| Time: Three hours | Maximum: 75 marks |
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| I. Write an essay on any ONE of the following: | $(1 \times 20 = 20)$ |
| 1. Define and classify enzymes with examples. Wh | at are coenzymes? Add a |
| note on clinically important enzymes. | |
| 2. Explain in detail about citric acid cycle with ener | rgitics and inhibitors. |
| Mention its significance. Add a note on amphibo | olic role of the pathway. |
| II. Write short notes on any TWO of the following: | $(2 \ge 10 = 20)$ |
| 3. Functions and deficiency of Vitamin C. | |
| 4. Classify proteins on different basis. | |
| 5. Briefly write about functions of lipids. | |
| 6. Regulation of blood calcium level. | |
| III. Write short answers on any SEVEN of the follow | ring: $(7 \times 5 = 35)$ |
| 7. Protein energy malnutrition. | |
| 8. Electrolytes. | |
| 9. Define pH and its normal range. | |
| 10.Vitamin K cycle. | |
| 11.Respiratory quotient and specific dynamic action | n. |
| 12.Molarity and molality. | |
| 13.Blood buffers. | |
| 14. Functions and deficiency of Thiamine. | |
| 15.Glycogen storage disease. | |
| 16.Isoenzymes. | |