Sl.No. M2381 Course Code: 2710104

VINAYAKA MISSION'S RESEARCH FOUNDATION (DEEMED TO BE UNIVERSITY), SALEM

DIPLOMA IN PHARMACY EXAMINATION – July 2021 First Year BIOCHEMISTRY AND CLINICAL PATHOLOGY

Time: Three hours Maximum: 80 marks

Answer **Any EIGHT** questions only
All questions carry equal marks
Draw Neat, Labelled Diagram wherever necessary.

- 1. What are proteins? Classify them. Give the biological importance of protein and protein deficiency disease.
- 2. Classify carbohydrates. Write the chemical and qualitative test for carbohydrate identification.
- 3. i) Discuss on the chemistry of lipids and the biosynthesis of cholesterol.
 - ii) Explain the disease related to carbohydrate metabolism.
- 4. Describe the citric acid cycle and disorder its importance in metabolism.
- 5. Give an account of source, chemistry, biological functions, deficiency status and daily requirement of vitamin- D.
- 6. What are the mineral required for human nutrition? Explain the sodium and water metabolism.
- 7. Define amino acid. Classify them and give examples.
- 8. What are lymphocytes? Classify them and their disease related to lymphocytes.
- 9. Define vitamins. Classification of vitamin. Explain the vitamin D.
- 10. Write notes on: i) Normal urine ii) Ketone bodies iii) Bile salts.
