

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

**DIPLOMA IN PHARMACY EXAMINATION –October 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. i) Define and explain the various types of Glycosuria. (2+3)  
ii) Identification test for reducing sugar in urine. (5)
2. Elaborate the structure of protein. (10)
3. Write a test to identify  
i) Ketone bodies ii) Bile salts iii) Blood iv) Bile pigments in urine
4. Write the source, daily requirements, functions and deficiency disease of Vitamin – C. (2+2+3+3 = 10)
5. Explain the various factors affecting enzymes. (10)
6. Define and classify minerals with examples. (2+5+3)
7. Elaborate phospholipids and Homopolysaccharide. (5+5)
8. Explain the chemistry of Vitamin – D. (10)
9. Write a note on abnormalities of WBC and Platelets.
10. Explain i) Obesity ii) Atherosclerosis (5+5)

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