

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

DIPLOMA IN PHARMACY EXAMINATION – April 2019
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. Define Vitamin. Classification of Vitamins. Explain the Vitamin C.
2. Define amino acids. Classification of amino acid with structure.
3. Define enzyme. Classification of enzyme. Write the diagnostic application of enzyme.
4. Explain the hexose monophosphate shunt pathway.
5. Write note on : a) Urea cycle b) gluconeogenesis.
6. Define lipids. Classification of lipids. Write a note on the significance of cholesterol in the body.
7. Write note on : a) EST b) Phenylketonuria.
8. Discuss the sources, metabolism and function of calcium. Write briefly on deficiency manifestation of it.
9. a) Define carbohydrates. Classification of carbohydrate with examples.
b) Muco Polysaccharide.
10. Write note on : a) Rothera's test b) Ketone bodies c) Abnormal Urine
