

Sl.No. M19436

Course Code: 2710104

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM**

**(Deemed to be University)**

**DIPLOMA IN PHARMACY EXAMINATION – October 2018**

**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 enzyme. Classification of enzyme and mechanism of enzyme.
2. Define protein. Classification of
  - a) Protein with examples
  - b) Essential amino acids with examples.
3. Explain  $\beta$  - oxidation of fatty acid with calculate the energetic.
4. Write the sources, daily requirements biochemical function and deficiency manifestation of calcium.
5. Briefly explain the citric acid cycle.
6. Short notes on : a) Mucopolysaccharide b) Essential fatty acids.
7. Write note on : a) Phenylketonuria b) Ketosis c) Phospholipids d) Iselectric PH
8. Write note on a) Abnormal constituent of urine b) Urea cycle.
9. Define Vitamins. Classification of Vitamin. Explain the Vitamin A.
10. Write note on a) Platelets b) Anemia c) Benedict's Test.

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