

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[BNYS 0923]**

**SEPTEMBER 2023  
(MAY 2023 EXAM SESSION)**

**Sub. Code: 1501**

**B.N.Y.S. DEGREE EXAMINATION  
FIRST YEAR – PART I  
(For the candidates admitted from the academic year 2011-12)  
PAPER I – BIO-CHEMISTRY**

*Q.P. Code: 821501*

**Time: Three Hours**

**Answer ALL questions**

**Maximum: 100 Marks**

**I. Essay Questions: (2 x 15 = 30)**

1. Define lipids. Classify lipids with suitable examples and mention its functions.
2. Describe sources, functions, deficiency and manifestations of Ascorbic acid.

**II. Write Notes on: (10 x 5 = 50)**

1. Protein energy malnutrition.
2. Electrolytes and water metabolism.
3. Define enzyme and classify it.
4. Derivatives of hemoglobin.
5. Electron transport chain.
6. Regulation of gluconeogenesis.
7. Transport of cholesterol.
8. Transamination.
9. Metabolism in starvation.
10. Jaundice.

**III. Short Answers on: (10 x 2 = 20)**

1. Dextrin.
2. Oncogenes.
3. Invert sugar.
4. Niacin.
5. Gouty arthritis.
6. Hemosiderin.
7. Atherosclerosis.
8. Ketosis.
9. Leukotrienes.
10. Avidin.

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