

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

**[BNYS 1021]**

**OCTOBER 2021  
(OCTOBER 2020 SESSION)**

**Sub. Code: 1501**

**B.N.Y.S. DEGREE EXAMINATION  
FIRST YEAR – PART I  
(For the candidates admitted from the academic year 2013-14)  
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. Explain the structure, synthesis and breakdown of Cholesterol.
2. Explain in detail about Nucleic Acid, Purines and Pyrimidine Bases.

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

1. Explain BMR.
2. Write a short notes on Electrophoresis.
3. Explain the structure of Protein.
4. Write a note on Ascorbic Acid.
5. Koop's theory of  $\beta$  oxidation of Fatty Acid.
6. Explain steroids.
7. Liver Function Test.
8. Write a note on Calcium.
9. Explain Polysaccharides.
10. Gluconeogenesis.

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

1. Iodine Deficiency.
2. Anaemia.
3. Fatty Liver.
4. Ketosis.
5. Co-Enzymes.
6. Van Den Bergh reaction.
7. Bitot's Spot.
8. Rancidity.
9. Hyper Vitaminosis.
10. Protamines.

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