

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

**[BNYS 0321]**

**MARCH 2021**

**Sub. Code: 1501**

**(MAY & AUGUST 2020 SESSION)**

**B.N.Y.S. DEGREE EXAMINATION**

**FIRST YEAR (From the academic year 2013-14) – PART I**

**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 starvation. Explain in detail on the biochemistry of starvation.
2. Explain in detail on amino acid pool, and Urea cycle.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Functions of Immunoglobulins.
2. Explain Clearance tests.
3. Define Basal metabolic rate. Write its importance and the factors affecting BMR.
4. Water metabolism and its regulation.
5. Explain Glycolysis.
6. Write about Vitamin D.
7. Structure of DNA.
8. Diagnostic importance of enzymes and Isoenzymes.
9. Write notes on Colorimetry.
10. Explain Phospholipids.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. Essential amino acids.
2. Specificity of enzymes.
3. What are Oligosaccharides?
4. Write about Fluorine.
5. Coagulation and denaturation of proteins.
6. Protein energy malnutrition.
7. What is Replication?
8. Sickle cell anaemia.
9. Acidosis and alkalosis.
10. Structure of haemoglobin.

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