

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

**[BNYS 0323]**

**MARCH 2023**

**Sub. Code: 1501**

**(AUGUST 2022 & OCTOBER 2022 EXAM SESSIONS)**

**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. Explain in detail about the nucleic acid and nucleotides. Describe in detail about the Purine and pyrimidine Metabolism.
2. Describe briefly about the iron metabolism and Deficiency of Iron.

**II. Write Notes on:**

**(10 x 5 = 50)**

1. Functions of Carbohydrate.
2. Different types of Monosaccharides.
3. Structure of Glucose.
4. Dehydration and Osazone formation of Monosaccharides.
5. Structure of insulin
6. Cellulose.
7. Glycoproteins.
8. Properties of Triacylglycerol.
9. Sphingomyelin.
10. Post-Transcriptional Modification.

**III. Short Answers on:**

**(10 x 2 = 20)**

1. What are simple Lipids?
2. Protamines.
3. Structure of Cyanocobalamin.
4. Hays test.
5. Diabetes Mellitus.
6. What is Collagen?
7. Explain Beri beri.
8. Define Enzymes.
9. What is Prostagladins?
10. Define Stereoisomerism.

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