

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

[BNYS 0124]

JANUARY 2024

Sub. Code: 1501

(JUNE 2023 / OCTOBER 2023 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 on the biochemical changes of starvation and add a note on importance of basal metabolic rate.
2. Define proteins. Explain in detail on its structure and classification.

II. Write Notes on:

(10 x 5 = 50)

1. Explain catabolism of amino acids.
2. Clearance Tests.
3. Write about Vitamin K, its chemistry, biochemical functions, RDA, dietary sources and deficiency symptoms.
4. Immunoglobulin, its structure, types and functions.
5. Write about phospholipids.
6. Regulation of blood sugar and Glucose tolerance test.
7. Define Enzyme. Write about its classification and specificity.
8. Outline the mechanism in regulation of blood calcium and its clinical condition.
9. Paper chromatography.
10. Define fatty acids. Write its classification and properties.

III. Short Answers on:

(10 x 2 = 20)

1. Differentiate Fat soluble and water soluble vitamins.
2. Denaturation and coagulation of proteins.
3. Alkalosis and Acidosis.
4. Oncogenes and Reverse Transcription Viruses.
5. Lactose intolerance.
6. Myoglobin - its structure and functions.
7. Protein Energy malnutrition.
8. Biologically important peptides.
9. Deficiency manifestations of Vitamin D.
10. Derived lipids.
