

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

[AHS 1122]

NOVEMBER 2022

Sub. Code: 5002

B.Sc. MEDICAL LABORATORY TECHNOLOGY

FIRST YEAR (Regulation 2010-2011)

PAPER II – BASIC CHEMISTRY

Q.P. Code: 725002

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on: (3X10=30)

1. Classify Carbohydrates. Write about the properties and biological importance of Carbohydrates.
2. Define Enzyme. Write a note on factors affecting enzyme activity.
3. Write about sources, requirement, functions and deficiency manifestations of Calcium.

II. Write Notes on: (8X5=40)

1. Functions and importance of Phospholipids.
2. Vitamin K – sources and functions.
3. Dietary fiber.
4. Wald's Visual Cycle.
5. Define isomerism. Mention the types of isomerism with examples.
6. Biological importance of proteins.
7. Essential fatty acids.
8. Define pH and write about buffers.

III. Short Answers on: (10X3=30)

1. Mention the biologically important nucleotides.
2. Define co-enzyme with examples.
3. Basal Metabolic Rate (BMR).
4. Difference between animal and plant cells.
5. Name three aromatic compounds of physiological importance.
6. Iodine value.
7. Specific dynamic action.
8. Name three enzyme inhibitors.
9. mRNA.
10. Peptide linkage.
