

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

[AHS 0423]

APRIL 2023

Sub. Code: 2734

B.OPTOM
FIRST YEAR (Regulation 2018-2019 onwards)
PAPER IV-BASIC BIOCHEMISTRY & NUTRITION
Q.P. Code: 802734

Time: Three Hours

Answer All questions

Maximum: 100 Marks

I. Elaborate on:

(3×10=30)

1. Explain the Glycolysis pathway and its significance.
2. Write about therapeutic and diagnostic applications of enzymes.
3. Explain the De novo synthesis of Palmitic acid.

II. Write note on:

(8×5=40)

1. Discuss about Biological role of Lipids.
2. Hormonal regulation of blood glucose level.
3. Define amino acids and write down the properties of amino acid.
4. Formation and utilisation of ketone bodies.
5. Conversion of cholesterol into bile acids.
6. Factors affecting the Enzyme action.
7. Explain the Urea cycle.
8. Functions of calcium and copper.

III. Short answer on:

(10×3=30)

1. Define Biomolecules.
2. Name essential Aminoacids.
3. pH.
4. Define Immunoglobulin.
5. Diabetes mellitus.
6. Obesity.
7. Hyperbilirubinemia.
8. Coenzymes.
9. Tears.
10. Define Electrophoresis.
