

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

[AHS 1122]

NOVEMBER 2022

Sub. Code: 2734

**B.OPTOM
FIRST YEAR (Regulation 2018-2019)
PAPER IV - BASIC BIOCHEMISTRY & NUTRITION**

Q.P NO. 802734

Time : Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3×10=30)

1. Define Vitamins. Add notes on vitamin A- sources, required dietary allowance, functions and deficiency manifestations.
2. List out the sources, functions and deficiency manifestations of proteins. Add note on supplementary foods.
3. Define glycolysis. Elaborate the pathway with the energetics for aerobic phase of glycolysis.

II. Write note on:

(8×5=40)

1. Plasma proteins.
2. Classification of lipids.
3. Enzyme Inhibition.
4. Beta-oxidation of palmitic acid.
5. Explain about various food groups.
6. Nutritional supplement for underweight child.
7. Importance of biochemical constituents in ocular fluid.
8. Essential fatty acids.

III. Short answer on:

(10×3=30)

1. Dietary fiber.
2. Give any four functions of carbohydrates.
3. Importance of omega-3- fatty acid in the diet.
4. Atherosclerosis.
5. Monosodium Glutamate (MSG).
6. Functions of calcium.
7. Iron deficiency anemia.
8. pH meter.
9. Electrophoresis.
10. Benedicts test.
