

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

[AHS 0424]

APRIL 2024

Sub. Code: 5017

B.Sc. MEDICAL LABORATORY TECHNOLOGY
SECOND YEAR (Regulations 2010-2011 & 2018-2019 onwards)
PAPER II – BIOCHEMISTRY - I
Q.P. Code: 725017

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on: **(3 x 10 = 30)**

1. Describe the synthesis, functions and abnormalities of Thyroid hormones.
2. Describe the structure, synthesis of Heme and its regulation of synthesis.
3. Beta oxidation of Fatty acids.

II. Write notes on: **(8 x 5 = 40)**

1. How is Creatine formed?
2. Pathway of Urea cycle.
3. Salvage pathway of Purine.
4. Hormonal regulation of blood glucose level.
5. Biochemical functions of Parathyroid hormones and its abnormalities.
6. Fate of cholesterol in the body.
7. Functions of Calcium.
8. Clinical significance of Uric acid and its normal value.

III. Short answers on: **(10 x 3 = 30)**

1. Hereditary Porphyria.
2. Acute phase reactants.
3. Thalassemia.
4. Eicosanoids.
5. Glycated haemoglobin.
6. Albinism.
7. Myoglobin.
8. Fatty liver.
9. Oxygen dissociation curve.
10. Ketone bodies.
