

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

[AHS 0423]

APRIL 2023

Sub. Code: 3003

**B.Sc. CLINICAL NUTRITION
FIRST YEAR (Regulation 2018-2019 onwards)
PAPER III – NUTRITIONAL BIOCHEMISTRY
Q. P. Code: 803003**

Time: Three hours

Maximum : 100 Marks

Answer ALL Questions

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

1. Discuss in detail about Protein Energy Malnutrition.
2. Explain in detail about Citric Acid Cycle.
3. What is Bilirubin? Explain the types of Jaundice.

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

1. Classification of Proteins.
2. Factors affecting enzyme action.
3. Significance of HMP shunt.
4. Hypothyroidism.
5. Vitamin A deficiency diseases.
6. Role of water and electrolytes in the body.
7. Glucose Tolerance Test.
8. Renal function Tests.

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

1. Basal Metabolic Rate.
2. Isoenzymes.
3. Essential Fatty Acids.
4. Saponification number.
5. Buffers.
6. Functions of Immunoglobulins.
7. Mention any three Tumour markers.
8. Functions of Carbohydrates.
9. Semi Essential Amino Acids.
10. Beriberi.
