

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

[AHS 1122]

NOVEMBER 2022

Sub. Code: 3003

**B.Sc. CLINICAL NUTRITION
FIRST YEAR (Regulation 2018-2019)
PAPER III – NUTRITIONAL BIOCHEMISTRY
Q.P NO. 803003**

Time: Three Hours

Answer All questions

Maximum: 100 Marks

I. Elaborate on :

(3X10=30)

1. Define Enzyme. Add a note on classification and factors affecting enzyme activity.
2. Write in detail on sources, requirements, deficiency disorders and biochemical functions of vitamin D.
3. Define Jaundice. Add a note on types of Jaundice and biochemical findings to differentiate the types of Jaundice.

II. Write Notes on :

(8X5=40)

1. Write about Protein Energy Malnutrition.
2. Explain in brief about glycogenolysis.
3. What are proteins and how are they classified?
4. Sources and functions of Thiamine.
5. Urea cycle.
6. Enzyme inhibition.
7. What is hypoglycaemia? What are its causes?
8. Describe the various renal function tests.

III. Short Answers on :

(10X3=30)

1. How is energy requirement calculated?
2. Define : i) Isoenzyme ii) co-enzyme.
3. What is a) Iodine number b) Saponification?
4. Define acidosis and alkalosis.
5. Wald's Visual cycle.
6. Balanced diet.
7. Brief about glucose tolerance test.
8. Define Specific dynamic action of food.
9. Scurvy.
10. Write any three properties of enzymes.
