

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

[AHS 1023]

OCTOBER 2023

Sub. Code: 1302

**M.Sc. CLINICAL NUTRITION
FIRST YEAR (From 2020-2021 onwards)
PAPER III – NUTRITIONAL BIOCHEMISTRY**

Q.P. Code: 281302

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. What are the three stages in which glucose is completely broken to CO_2 and H_2O with the formation of ATP?
2. How are lipids classified? Give examples of each group.

II. Write notes on:

(10 x 6 = 60)

1. Rhodopsin cycle.
2. Explain the general properties of proteins.
3. State the clinical importance of enzymes.
4. Explain B-thalassemia.
5. Enumerate the metabolic role of tyrosine in the body.
6. Name the constituent enzymes of the fatty acid synthase multi-enzyme complex.
7. Illustrate the pituitary gland.
8. Difference between DNA and RNA.
9. Explain the biosynthesis of urea.
10. Write the glycogen storage diseases.
