

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

[AHS 0423]

APRIL 2023

Sub. Code: 1402

**B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY
FIRST YEAR (Regulations 2010-2011, 2014-2015 & 2018-2019 onwards)
PAPER II - BIOCHEMISTRY & PATHOLOGY**

Q.P. Code: 801402

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on :

(3 X 10 = 30)

1. Define Enzyme. Explain in detail about factors affecting Enzyme activity.
2. Define Lipids. Classify Lipids and write the importance of Essential Fatty Acids in diet.
3. Define Inflammation. Mention its signs and explain in detail about vascular and cellular events of Acute Inflammation.

II. Write Notes on :

(8 X 5 = 40)

1. Pathogenesis of Viral infections.
2. Causes of cell injury.
3. Give an account on disorders of immune system.
4. Classification and functions of proteins.
5. Kwashiorkor and Marasmus.
6. Sources and functions of Calcium.
7. Write the sources, functions and deficiency manifestations of Vitamin A.
8. Enzyme inhibition.

III. Short Answers on :

(10 X 3 = 30)

1. Define cell injury and its types.
2. What is Gangrene?
3. Mention three fungal infections and its causes.
4. T cell and its function.
5. Define hyperplasia.
6. Define isoenzyme with example.
7. Protein denaturation.
8. Normal value in blood (Reference range)
i) Sodium ii) Potassium iii) Chloride.
9. Mention the calorific value of foods.
10. Define (a) pH (b) Molarity.
