

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

[AHS 0424]

APRIL 2024

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

Answer All questions

Maximum: 100 Marks

I. Elaborate on :

(3 X 10 = 30)

1. Explain in detail about dietary sources, biochemical functions and deficiency manifestations of Vitamin D.
2. Write in detail about Protein energy malnutrition.
3. Define Cell injury. Explain in detail about the causes and mechanisms of Cell injury.

II. Write Notes on :

(8 X 5 = 40)

1. Basal Metabolic Rate.
2. Classification of Amino acids.
3. Polyunsaturated Fatty acids.
4. Define and classify Hypersensitivity reactions. Explain Type I Hypersensitivity.
5. Morphological pattern in acute inflammation.
6. Competitive inhibition.
7. Parasitic infections.
8. Cellular adaptations.

III. Short Answers on :

(10 X 3 = 30)

1. Granulomatous inflammation.
2. Name three autoimmune disorders.
3. Active site.
4. Name three viral infections.
5. Apoptosis.
6. Rheumatic Heart disease.
7. Anaerobic Glycolysis.
8. Define Metaplasia and give an example.
9. Define pH. What is the normal pH of blood?
10. Functions of Protein.
