

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 2502

**B.Sc. NEURO ELECTRO PHYSIOLOGY
FIRST YEAR (Regulations 2012-2013 & 2018-2019 onwards)**

PAPER II – PHYSIOLOGY & BIOCHEMISTRY

Q.P. Code: 802502

Time: Three Hours

Answer All questions

Maximum : 100 Marks

I. Elaborate on : **(3X10=30)**

1. Define Blood Clotting. Write a note on clotting factors. Describe in detail about mechanism of Clotting.
2. Define Isoenzymes. Describe in detail about types of Enzyme inhibition with examples. Add a note on Coenzyme.
3. Write in detail about sources, biochemical functions and deficiency manifestations of Vitamin D.

II. Write Notes on : **(8 X 5 = 40)**

1. Define pH, Buffer, Normality, Molarity and Molality.
2. Classify Proteins based on structural organization.
3. Sources and Biochemical functions of Folic acid.
4. Describe briefly about the formation of Urine.
5. Conducting system of Heart.
6. Write in detail about Chemical process involved in muscle contraction.
7. Phases of Menstrual cycle.
8. Principles of Lung Function Test.

III. Short Answers on : **(10 X 3 = 30)**

1. Define Hyponatremia and Hyperkalemia.
2. Mention any four abnormal constituents of Urine.
3. Coenzyme forms of Niacin and its importance.
4. Define Fluorosis and its clinical manifestation.
5. Define Diabetes Mellitus and types of Diabetes Mellitus.
6. Functions of Retina.
7. Rickets and Osteomalacia.
8. Cushings syndrome.
9. Functions of Basal Ganglia.
10. Referred pain.
