

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

[BPT 0423]

**APRIL 2023
(FEBRUARY 2023 EXAM SESSION)**

Sub. Code: 6275

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
FIRST YEAR - (Regulation from 2017-2018 onwards)
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY**

Q.P. Code: 746275

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe in detail about Axes and Planes in relation to movements produced in human body with examples.
2. Define Thermionic Valves and Thermionic Emission. Explain briefly about Construction, working and application of Cathode Ray Oscilloscope (CRO).

II. Write notes on:

(10 x 5 = 50)

1. DC Currents.
2. Newton's Law.
3. Cosine law and its implications.
4. Properties of magnet.
5. Wheatstone bridge.
6. Medium Frequency Currents.
7. Springs and its properties.
8. Potentiometer.
9. Voltmeter.
10. Semi – Conductors.

III. Short answers on:

(10 x 2 = 20)

1. Force and its Components.
2. Smoothing Circuits.
3. Fixation and stabilization.
4. S – D Curve.
5. Momentum.
6. Fuse.
7. Electromagnetic Spectrum.
8. Impedance.
9. Centre of gravity.
10. Farad.
