

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

[BPT 0122]

**JANUARY 2022
(AUGUST 2021 EXAM SESSION)**

Sub. Code: 6254

**BACHELOR OF PHYSIOTHERAPY DEGREE COURSE
FIRST YEAR – (Regulation from 2010-2011 onwards)
PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY
Q.P. Code : 746254**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define speed, velocity, work, energy, power, acceleration, momentum principles and applications in physiotherapy.
2. Explain in detail about gravity and types.

II. Write notes on:

(8 x 5 = 40)

1. Parameters of alternating current.
2. Types of a magnet.
3. Properties of magnetic lines of force.
4. Faraday's Law.
5. Capacitor series and parallel.
6. Electromagnetic induction.
7. Diode valve.
8. Explain in Transistor and its types.

III. Short answers on:

(10 x 2 = 20)

1. Young's modulus.
2. Wavelength.
3. Amplitude.
4. Frequency.
5. Static electricity.
6. Ohm's Law.
7. Electric power.
8. Base of support.
9. Inverse Square Law.
10. Radiation.
