

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

[BPT 0622]

**JUNE 2022
(FEBRUARY 2022 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. Explain in detail about the principles types construction working and uses of Transformers.
2. Define levers. Describe different classes of levers, its functions examples and application of levers in physiotherapy.

II. Write notes on:

(10 x 5 = 50)

1. Laws governing radiations.
2. Choke Coil.
3. Thermionic valve.
4. Ammeter.
5. Capacitors.
6. Types of Equilibrium.
7. Pulleys and its types.
8. Differentiate between Electric and Earth Shock.
9. Oscillators.
10. LED – Light Emitting Diodes.

III. Short answers on:

(10 x 2 = 20)

1. Ohm's Law.
2. Concurrent force.
3. Inertia.
4. Latent heat of vaporization.
5. Power.
6. Electromotive force.
7. Shunt Rheostat.
8. Lenz's Law.
9. Eddy Current.
10. Proton.
