

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

[LR 1220]

**DECEMBER 2020
(AUGUST 2020 EXAM SESSION)**

Sub. Code: 6254

**BPT DEGREE EXAMINATION
FIRST YEAR
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 Force. Give the diagrammatic representation of force and detail about classification of forces.
2. Describe in detail about Low frequency current, medium frequency current and direct current.

II. Write notes on:

(8 x 5 = 40)

1. Choke coil.
2. Newton's law.
3. Hooke's law.
4. Kinetic and potential energy.
5. Laws governing radiation.
6. Oscillators.
7. Ammeter.
8. Concurrent system of force and its uses.

III. Short answers on:

(10 x 2 = 20)

1. Fuse.
2. Uses of springs.
3. Cosine law.
4. Voltmeter.
5. Prevention of Electric shock.
6. Define pulley.
7. Thermal effect of heat.
8. Define Rectifiers.
9. Define Biomechanics.
10. Prevention of Electric Burns.
