

[LN 6254]

AUGUST 2018

Sub. Code: 6254

**BPT DEGREE EXAMINATION
FIRST YEAR
PAPER IV – BASIC AND APPLIED PHYSICS FOR
PHYSIOTHERAPY**

Q.P. Code : 746254

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Define Lever. Describe the types of levers with an example. Write the application of lever principles in physiotherapy treatment.
2. Define Capacitor. Write its types and explain the electric field around a capacitor, charging and discharging of capacitor.

II. Write notes on:

(8 x 5 = 40)

1. Types of pulleys.
2. Fuse.
3. Classification of forces.
4. Semiconductor.
5. Hooke's law.
6. Ionisation.
7. Grothus law and its implications.
8. Light emitting diodes (LED).

III. Short answers on:

(10 x 2 = 20)

1. Biomechanics.
2. Electro motive force.
3. Inertia.
4. Medium frequency currents.
5. Types of friction.
6. Ohmmeter.
7. Sine wave.
8. Grid.
9. Pendulum.
10. Reactance.
