



[LQ 6275]

FEBRUARY 2020

Sub. Code: 6275

BPT DEGREE EXAMINATION

FIRST YEAR

(Regulations for the candidates admitted from 2017-2018 onwards)

**PAPER IV – BASIC AND APPLIED PHYSICS FOR
PHYSIOTHERAPY**

Q.P. Code : 746275

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Define Equilibrium. Explain about the types and equilibrium in static and dynamic state.
2. Definition, description, physiological effects, pathological effects and dangers of Thermal, Electrical, Electromagnetic Therapeutic Energies.

II. Write notes on:

(10 x 5 = 50)

1. Force – definition, classification and composition.
2. Capacitors.
3. Explain Static and Dynamic equilibrium.
4. Physical effect of heat & radiation.
5. Pendular movement.
6. Axes and planes.
7. Magnetic effects of electric current.
8. Thermionic emission.
9. Levers in Physiotherapy.
10. Cosine law and its implications.

III. Short answers on:

(10 x 2 = 20)

1. Kinetic energy.
2. Biomechanics.
3. Thermotherapy.
4. Lenz's law.
5. Proton.
6. Latent heat of vaporization.
7. Fixation and Stabilisation.
8. Ionization.
9. Define choke coil.
10. Hooke's Law.

