

[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.