

[LP 6275]

AUGUST 2019

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 Electric Shock. Describe the causes, treatment and prevention of electric shock.
2. Define Lever. Describe the types, functions and application of lever principles in exercise therapy.

II. Write notes on: **(10 x 5 = 50)**

1. Oscillator.
2. Electromagnetic induction.
3. Concurrent force system.
4. Types of springs.
5. Grotthus law and its application.
6. Physiological effects of heat.
7. Wheatstone bridge.
8. Friction.
9. Semi conductors.
10. Types of pulley.

III. Short answers on: **(10 x 2 = 20)**

1. Rheostat.
2. Force.
3. Amplitude.
4. Power.
5. Electromagnetic wave.
6. Speed.
7. Molecular magnet.
8. Inverse square law.
9. Center of gravity.
10. Young's modulus.