

[LN 6275]

AUGUST 2018

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 20 = 40)

1. Explain in detail about the Newton's laws and application of its principles in exercise therapy.
2. Define electric current. Explain the thermal, chemical and magnetic effects of an electric current.

II. Write notes on:

(8 x 5 = 40)

1. Extrinsic semiconductor.
2. Physical effects of heat.
3. Resistance in series and parallel.
4. Voltmeter.
5. Types of motion.
6. Movable pulley.
7. Molecular theory of magnet.
8. Application of momentum principle in physiotherapy.

III. Short answers on:

(10 x 2 = 20)

1. Work.
2. Inductor.
3. Whetstone bridge.
4. Cryotherapy.
5. Torque.
6. Capacitance.
7. Transistor.
8. Lenz's law.
9. Elastic materials used in physiotherapy.
10. Stability versus mobility.
