

[LH 6254]

AUGUST 2015

Sub. Code: 6254

**B.P.T. DEGREE EXAMINATION****FIRST YEAR****PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY***Q.P. Code: 746254***Time : Three Hours****Maximum : 100 marks****Answer ALL questions****I. Elaborate on:****(2 x 20 = 40)**

1. Define force. Give the diagrammatic representation of force and also explain briefly with its classification.
2. Define electric current. Explain in detail about thermal, chemical, mechanical and magnetic effects of electric current.

**II. Write notes on:****(8 x 5 = 40)**

1. Wheat stone Bridge.
2. Semiconductors.
3. Newton's laws.
4. Springs in series and parallel.
5. Cosine law and its implications.
6. Medium frequency currents.
7. Electric and Earth shock.
8. Physiological effects of heat and radiation.

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

1. Kinetic energy.
2. Amplitude.
3. Elasticity.
4. Inductors.
5. Work.
6. Biomechanics.
7. Ohmmeter.
8. Acceleration.
9. Wavelength.
10. Thermotherapy.

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