

[LC 6254]

FEBRUARY 2013

Sub. Code: 6254

FIRST YEAR BPT EXAM**PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY***Q.P. Code: 746254***Time: Three Hours
(180 Min)****Maximum: 100 marks****I. Elaborate on:****(2X20=40)**

1. Define levers. Explain the function, classification and application of levers in physiotherapy & order of levers with example of lever in human body.
2. Explain in detail about the Newton's laws.

II. Write Notes on:**(8X5=40)**

1. Wheatstone bridge.
2. Cosine law and its implications.
3. Electric shock.
4. Pulleys.
5. Ammeters.
6. Rectifiers.
7. Electromagnetic Induction.
8. Properties of a magnet.

III. Short Answer:**(10X2=20)**

1. Faraday's Law.
2. Eddy currents.
3. Law of Grotthus.
4. Concurrent forces.
5. Impedance.
6. Low frequency currents.
7. Centre of Gravity.
8. Define Velocity.
9. Shunt Rheostat.
10. EMF.
