

[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.
