

[LF 6254]

AUGUST 2014

Sub. Code: 6254

**FIRST YEAR BPT EXAM
PAPER IV – BASIC AND APPLIED PHYSICS FOR
PHYSIOTHERAPY**

Q.P. Code : 746254

Time: Three hours**Maximum: 100 marks****I. Elaborate on:****(2X20=40)**

1. Define Speed, velocity, work, energy, power, acceleration, momentum, elasticity, principles and applications in physiotherapy.
2. Explain in detail about AC and DC currents.

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

1. Coplanar and concurrent forces
2. Molecular Theory of Magnet
3. Levers in Physiotherapy
4. Hooke's Law
5. Conductors
6. Charging and discharging a capacitor
7. Shunt Rheostat
8. Groothus Law

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

1. Farad
2. Eddy Current
3. Electromagnetism
4. Fixation and Stabilisation
5. Ammeter
6. Factors determining capacity
7. Len's Law
8. Rectifiers
9. Thermal Energy
10. Volt Meter
