

[LE 6254]

FEBRUARY 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. Explain in detail about the physical effects on heat & radiation and laws governing radiation.
2. Define springs. Write about its properties and about springs in parallel and series. Also explain about the elastic materials in use.

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

1. Momentum – principles & practical application
2. Speed
3. Axes and planes.
4. Pendular movement.
5. Properties of a magnet.
6. Magnetic effects of electric current.
7. Diode valve.
8. Oscillators.

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

1. Ionization.
2. Fuse.
3. Sinusoidal current
4. LED
5. Internal reflection.
6. Newton's laws
7. Types of pulleys.
8. Define Biomechanics.
9. Angle of pulls of muscle.
10. Define stress.

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