**[LL 6254]** AUGUST 2017 **Sub. Code: 6254**

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

***Q.P. Code : 746254***

**Time: Three hours** **Maximum: 100 Marks**

**I. Elaborate on:** **(2 x 20 = 40)**

1. Define Earth shock. Describe the causes, management and preventive measures of earth shock.

2. Explain in detail about the various force systems with example.

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

1. Axes and planes.
2. Physiological effects of heat.
3. Cathode Ray Oscilloscope (CRO).
4. Newton's second law of motion.
5. Types of transformer.
6. Cosine law and its implications.
7. Factors determining capacitance of condenser.
8. Types of equilibrium.

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

1. Base of support.
2. Low frequency currents.
3. Angle of pull of a muscle.
4. Rectifier.
5. Pulley.
6. Thermotherapy.
7. Strain.
8. Free electrons.
9. Mechanical advantage.
10. Potentiometer.

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