## FIRST YEAR BPT EXAMINATION
## 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 levers. Describe different orders of lever, its function and application of levers in the field of physiotherapy.

2. Explain the principle, construction, working and uses of Transformer.

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

1. Cosine law
2. Smoothing circuits
3. Thermionic valve
4. Ammeter
5. Capacitors
6. Types of equilibrium
7. Pulleys
8. Force

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

1. Ohm's law
2. Difference between earth shock and electric shock
3. Inertia
4. Latent heat of vaporization
5. Energy
6. Power
7. Joule's law
8. Insulators
9. Work
10. Proton

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