

[LO 6254]

FEBRUARY 2019

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. Describe the axes and planes in relation to movements in human body with examples.
2. Explain the principle, construction, working and uses of Transformer.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Wheat stone bridge.
2. Law of Grothus and Implications.
3. Rectifiers.
4. Explain about types of equilibrium.
5. Details about DC currents.
6. Factors determining capacitance of condenser.
7. List the types of Valves and construction.
8. Define springs, write about its properties. Also explain about the elastic materials in use.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Potentiometer.
2. Newton's II<sup>nd</sup> law.
3. Strain.
4. Earth shock.
5. Molecular theory.
6. S.D. curve.
7. Define levers.
8. Solid friction.
9. Kinetic Energy.
10. Eddy currents.

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