

[BPT 0321]**MARCH 2021
(AUGUST 2020 EXAM SESSION)****Sub. Code: 6275****BPT DEGREE EXAMINATION****FIRST YEAR****(New Regulations for the candidates admitted from 2017-2018 onwards)****PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY*****Q.P. Code : 746275*****Time: Three hours****Answer ALL Questions****Maximum: 100 Marks****I. Elaborate on:****(2 x 15 = 30)**

1. Explain in detail about the physical effects on heat of radiation and laws governing radiation.
2. Explain the principle, construction, working and uses of Transformer

II. Write notes on:**(10 x 5 = 50)**

1. Thermionic Valve.
2. Pendular Movement.
3. Electric shock and earth shock.
4. Cosine law and its implications.
5. Axes and planes.
6. Len's law.
7. Factors determining capacitance of condense
8. Define springs and its properties.
9. Springs in series and parallel.
10. Pulleys.

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

1. Law of Grotthus.
2. Medium frequency currents.
3. Define velocity.
4. Proton.
5. EMF.
6. Concurrent forces.
7. Inductors.
8. Electric current.
9. Electric resistant.
10. Elasticity.
