

**B.Sc. RADIOLOGY IMAGING TECHNOLOGY /
RADIO DIAGNOSIS TECHNOLOGY
FIRST YEAR**

**PAPER II – GENERAL PHYSICS, RADIATION PHYSICS AND
PHYSICS OF DIAGNOSTIC RADIOLOGY**

Q.P. Code: 801802

Time : Three Hours

Maximum : 100 Marks

Answer All questions.

I. Elaborate on:

(3 x 10 = 30)

1. Discuss in detail about beam limiting devices.
2. Electromagnetic spectrum. Discuss about the various properties of xrays.
3. Explain in detail natural and artificial radioactivity. Discuss the various radioisotopes used in medicine.

II. Write notes on:

(8 x 5 = 40)

1. Reasons for grid cut-off.
2. Intensifying screen.
3. Heat loss in transformer.
4. Film cassette.
5. HVT and TVT.
6. Stationary anode x-ray tube.
7. Full wave rectifier.
8. Interaction of xrays with matter.

III. Short answers on:

(10 x 3 = 30)

1. Voltage and current.
2. Alternating current.
3. Coulombs law.
4. Ohms law.
5. Diodes.
6. Nuclear Fission reaction.
7. Tomography.
8. Capacitance.
9. Valve.
10. Self induction.
