

[LH 0415]

OCTOBER 2015

Sub. Code: 3602

DIPLOMA IN RADIOLOGY & IMAGING TECHNOLOGY
(Regulation for candidates admitted from 2014-2015 session onwards)
PAPER II – RADIO DIAGNOSTIC EQUIPMENTS – INSTRUMENTATION,
RADIATION, SAFETY & QUALITY CONTROL

Q.P. Code : 363602

Time : Three hours

Maximum : 100 marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain MRI Instrumentation in detail.
2. Explain planning of X-ray installation as per AERB guidelines.

II. Write notes on:

(10 x 6 = 60)

1. Describe Kilo Voltage (KV) control circuit in X-ray production.
2. Write note on Exposure Timers and its types.
3. Discuss about Automatic Exposure control.
4. Discuss solid state CT detector.
5. Discuss about MRI safety and shielding.
6. Write a short note on PET – CT Artifacts.
7. Write about the responsibilities of RSO according to Radiation Protection Rules.
8. Define Use factor and Occupancy Factor.
9. Write about types of Packages for Radioactive Sources.
10. Explain Congruence of Radiation & Optical field & Test for Central Beam alignment in X-ray Quality Assurance.
