

(LJ 1514)

OCTOBER 2016

Sub. Code:3019

**DIPLOMA IN MEDICAL RADIO DIAGNOSIS (DMRD)
EXAMINATION**

MEDICAL RADIATION PHYSICS AS APPLIED TO RADIO DIAGNOSIS

Q.P.Code: 343019

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 15 = 30)**

1. Discuss the physics and principle of spiral CT, add a note on multi detector CT.
2. Write in detail about SPECT - Gamma Camera system.

II. Write notes on: **(10 x 7 = 70)**

1. MR contrast agents.
2. CT artefacts.
3. Physics of Doppler effect.
4. X-ray Mammography Equipment.
5. Characteristic curve of X-rays.
6. Physics of PET imaging.
7. Non-stochastic effects of Radiation.
8. Radiation protective devices and their lead equivalents.
9. Physics of Intensify screens.
10. Dark Room Plan of a Radiology Dept.
