

**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. Write the principle of fluoroscopy and discuss in detail about image intensifiers.
2. Discuss the physics of X-ray production. Elaborate its use and principles in CT – imaging.

II. Write notes on:

(10 x 7 = 70)

1. Ultrasound contrast agents.
2. MR artefacts.
3. Physics of Diffusion weighted sequences.
4. Wet processing of X-ray films using chemicals.
5. Ultrasound transducer.
6. Radiation units in practice.
7. Mammography films.
8. TLD badge.
9. Physics of MR angiography.
10. Computed Radiography.
