

(LD 1514)

OCTOBER 2013

Sub. Code: 3019

**DIPLOMA IN MEDICAL RADIODIAGNOSIS (DMRD)
EXAMINATION**

MEDICAL RADIATION PHYSICS AS APPLIED TO RADIODIAGNOSIS

Q.P. Code : 343019

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Discuss the factors that affect “Radiographic image.”
2. Discuss the physical principles of Doppler imaging.

II. Write notes on:

(10X7=70)

1. Compare computed Radiography versus Digital Radiography.
2. Outline the basic principle in multi slice CT.
3. Principle of Digital subtraction angiography.
4. Write a note on stochastic effects of Radiation.
5. Define Larmour frequency Explain T1 and T2 relaxation times.
6. Write a short note on intensifying screens.
7. Principle of SPECT.
8. Automatic Processing Unit.
9. Describe an ultrasound transducer.
10. Explain Anode Heel effect with a diagram.
