

(LK 1514)

MAY 2017

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. Define Doppler effect. Briefly describe Colour Doppler and Power Doppler modes of imaging. Enumerate the advantages of each mode.
2. Discuss in detail the planning consideration of 500mA X-ray machine.

II. Write notes on:

(10 x 7 = 70)

1. Digital mammography.
2. PACS in radiology
3. Safety hazards in MRI.
4. Factors affecting film contrast.
5. Heel effect
6. Advantages of grid
7. Flat panel detectors.
8. Technique of fat suppressed MRI.
9. Image intensifier.
10. Dosimeters for radiation screening.
