
M.D. DEGREE EXAMINATION

BRANCH VIII – RADIO DIAGNOSIS

PAPER I – MEDICAL RADIATION PHYSICS AS APPLIED TO RADIO DIAGNOSIS

Q.P. Code: 202031

Time : Three Hours

I. Elaborate on:

1. Discuss the principles and physics of ultrasound and Doppler imaging.

2. Planning radiology department for a 750 bedded multi-specialty hospital.

II. Write notes on:

- 1. Dark room plan for wet processing of X-ray films.
- 2. Spin echo sequence.
- 3. X-ray films Types and characteristics.
- 4. The ways to minimize radiation for children during radiographic investigations.
- 5. Safety precautions during MRI.
- 6. Spiral CT.
- 7. Discuss the artefacts in MR imaging.
- 8. Rotating anode X-ray tube.
- 9. Photoelectric effect.
- 10. PACS in a Radiology Dept.

 $(2 \times 15 = 30)$

(10 x 7 = 70)

Maximum : 100 Marks