

MD RADIO DIAGNOSIS

(MAY 2020 SESSION)

PAPER I – MEDICAL RADIATION PHYSICS AS APPLIED TO RADIO DIAGNOSIS

I. Elaborate on:

(2 x 15 = 30)

1. What is the basic principle of MDCT (Multi detector computed tomography)?
Add a detailed note about detectors used in it.
2. Enumerate the various interactions of X – ray with matter. Describe any three interactions in detail

II. Write notes on:

(10 x 7 = 70)

1. Quench and its implications.
2. ALARA Principle (As low as reasonably achievable)
3. Structure and principle of intensifying screens.
4. Anaesthesia in MRI.
5. Discuss the function of image intensifier
6. Automatic film processor
7. PCPNDT act
8. Nephrogenic systemic fibrosis
9. Differences between a conventional X-ray tube and mammography tube
10. Role of USG in intussusception
