

[LI 136]

APRIL 2016

Sub. Code: 2031

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

Maximum : 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Describe basic physics of mammography imaging. Write about various views and interpretations in it.
2. What is sharpness in radiography? Classify unsharpness. Write about factors affecting radiographic images quality.

II. Write notes on:

(10 x 7 = 70)

1. Artifacts in CT imaging.
2. Inverse square law and its clinical application.
3. Composition of ultrasound gel and its role.
4. Physics of ultrasound elastography.
5. Evaluation of grid performance.
6. Computed Radiography.
7. Principles of MRI imaging.
8. Annihilation coincidence detection.
9. Radiology Information System (RIS).
10. Film gamma.
