

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 0522]

MAY 2022

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. National and international various regulatory boards in radiology and their regulations.
2. Various MR Angiographic sequences with special reference to May Thurner syndrome.

II. Write notes on:

(10 x 7 = 70)

1. Pre Conception and pre natal Diagnostic Technique Act.
2. Detector system in Filmless technique.
3. DEXA Scan in osteoporosis.
4. Doppler physics with special notes on Renal transplant.
5. Artifacts in helical CT.
6. MRI Gradient sequences.
7. Filters in mammogram.
8. Heel effect.
9. What are the types of Grid? Write notes on Grid ratio.
10. Brief notes on photo electric effect and Compton scattering.
