

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

[AHS 0122]

**JANUARY 2022
(OCTOBER 2021 EXAM SESSION)**

Sub. Code: 2515

**M.Sc. RADIOGRAPHY AND IMAGING TECHNOLOGY
SECOND YEAR (From 2019-2020 onwards)
PAPER V – NEWER DEVELOPMENTS IN ADVANCED IMAGING
TECHNOLOGY
*Q.P. Code : 282515***

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Enumerate the various gradient echo sequences. Describe in brief the principles and their clinical applications.
2. Mention the recent advancements and innovation in dual source CT technology and elaborate on them.

II. Write notes on:

(10 x 6 = 60)

1. Breast Tomosynthesis.
2. Dry view Laser Camera.
3. Artefact reduction techniques in MDCT.
4. Volume Ultrasound.
5. Diffusion Weighted Imaging.
6. Ultrasound Elastography.
7. Digital Fluoroscopy.
8. Contrast enhanced USG.
9. HIFU.
10. Silent MRI.
