

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

[AHS 1022]

OCTOBER 2022

Sub. Code: 2505

**M.Sc. RADIOGRAPHY AND IMAGING TECHNOLOGY
FIRST YEAR**

(Candidates admitted from 2019-2020 onwards – Paper V)

(Candidates admitted from 2020-2021 onwards – Paper VI)

PAPER V & VI – MODERN RADIOLOGICAL AND IMAGING EQUIPMENT

Q.P. Code : 282505

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Discuss principle, equipment, procedure and recent advances in gamma camera and spect imaging.
2. a) Discuss various non-contrast angiography.
b) Discuss in detail about various types of MRI PERFUSION sequences, techniques and application.

II. Write Short Notes on:

(10x6 = 60)

1. MRI Artifacts and remedies.
2. Explain MPR, MIP and MINIP.
3. Patient preparation and procedure and post processing techniques in pulmonary angiogram.
4. Types of modern X-Ray tubes.
5. MR spectroscopy principle.
6. CT Cisternogram.
7. Contrast Media.
8. Techniques of Ultrasound Elastography and its applications.
9. Technetium generator.
10. Ultrasound artifacts.
