

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

[AHS 0222]

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

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 PET imaging.
2. Discuss in detail about MRCP principle, technique, sequences and clinical uses.

II. Write Short Notes on:

(10x6 = 60)

1. CT contrast reactions and its management.
2. Basic principle of MRI.
3. Patient preparation and procedure and post processing techniques in cerebral angiogram.
4. Principle and technique of dual energy CT.
5. HIFU – Principles and clinical uses.
6. DEXA Scan.
7. Digital Radiography.
8. Doppler.
9. Piezo electric effect.
10. MR Spectroscopy.
