

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

[AHS 0122]

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

Sub. Code: 2512

**M.Sc. RADIOGRAPHY AND IMAGING TECHNOLOGY
SECOND YEAR (From 2019-2020 onwards)
PAPER II – QUALITY ASSURANCE AND QUALITY CONTROL IN
DIAGNOSTIC RADIOLOGY AND IMAGING
*Q.P. Code : 282512***

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Describe the quality control procedures in conventional radiography.
2. Write in detail about quality assurance and quality control in MRI.

II. Write notes on:

(10 x 6 = 60)

1. Measurement of CT dose index.
2. Screen-film cassette speed matching.
3. Phantom measurements in CT.
4. Quality assurance record keeping.
5. mAs test.
6. SMPTE.
7. Sensitometry.
8. Cassette leak check.
9. Grid alignment test.
10. Film contrast.
