

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

[AHS 1023]

OCTOBER 2023

Sub. Code: 2512

**M.Sc. RADIOGRAPHY AND IMAGING TECHNOLOGY
SECOND YEAR (From 2020-2021 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 of cathlab X-ray equipment's.
2. Explain about quality control and quality assurance fluoroscopy devices.

II. Write notes on:

(10 x 6 = 60)

1. Write about real time ultrasonography.
2. Write about Quality Assurance and quality control in digital radiography.
3. X-ray output and beam quality test.
4. List the source of radiation.
5. Write about characteristic curve.
6. SMPTE.
7. Beam ailment and collimation.
8. MRI artifacts.
9. Measurement of CT dose index.
10. Write about Linearity of mA and Tube housing leakage.
