

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

[AHS 0321]

MARCH 2021

Sub. Code: 1812

(OCTOBER 2020 EXAM SESSION)

M.Sc. RADIOLOGY AND IMAGING TECHNOLOGY

SECOND YEAR (From 2017-2018 onwards)

**PAPER II – QUALITY ASSURANCE AND QUALITY CONTROL IN
DIAGNOSTIC RADIOLOGY AND IMAGING**

Q.P. Code : 281812

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. Describe the quality control procedures and quality assurance in Digital Radiography.
2. Write in detail about Quality Assurance and quality control in MRI.

II. Write Short Notes on:

(10x6 = 60)

1. SMPTE pattern
2. Phantom measurements in CT.
3. Sensitometry
4. Faults tracing in radiography
5. X-ray out-put and beam quality check
6. Timer check in radiography
7. Evaluation of results of routine testings in Computed tomography.
8. Cassette leak check
9. Safe light test
10. Maintenance of automatic processor and manual processing units
