

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

[AHS 0423]

APRIL 2023

Sub. Code: 1803

**B.Sc. RADIOLOGY IMAGING TECHNOLOGY
FIRST YEAR (Regulations 2010-2011 & 2014-2015 onwards)
PAPER III - RADIO DIAGNOSIS EQUIPMENTS, MAINTENANCE AND
QUALITY CONTROL**

Q.P. Code: 801803

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on : (3X10=30)

1. Describe about generation of Computed Tomography.
2. Discuss about rotating anode X-ray tube.
3. Describe about construction and working of image Intensifier tube.

II. Write Notes on : (8X5=40)

1. Digital radiography.
2. QA of kVp measurement.
3. DSA.
4. Mammography.
5. Radiation production in mobile radiography.
6. Dental radiography.
7. Equipments used in DSA cath lab.
8. Tomography.

III. Short Answers on : (10X3=30)

1. Thermionic emission.
2. ABC.
3. What is tube current?
4. Inherent filtration.
5. Scattered radiation.
6. Hounsfield number.
7. QA of focal spot determination.
8. CR detector.
9. Tube rating.
10. X-ray generator.
