

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

[AHS 1122]

NOVEMBER 2022

Sub. Code: 1803

**B.Sc. RADIOLOGY IMAGING TECHNOLOGY**  
**FIRST YEAR (Regulations 2010-2011 & 2014-2015)**  
**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. Discuss the working principle of digital radiography.
2. List the various generations of CT scan. Discuss about its principle.
3. Discuss in detail about factors affecting the image quality.

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

1. Image intensifiers.
2. Types of dental film and processing.
3. Spiral CT.
4. Principle of dosimeter.
5. QA of mA station.
6. Mobile X-ray unit.
7. Digital radiograph Vs computed radiograph.
8. Direct fluoroscopy.

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

1. Heat unit.
2. Tube Voltage.
3. ABC.
4. Spare charge effect.
5. Filtration.
6. CRT.
7. DSA.
8. Anode material.
9. DR detector.
10. Filament current.

\*\*\*\*\*