

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

[AHS 0222]

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

**Sub. Code: 2502**

**M.Sc. RADIOGRAPHY AND IMAGING TECHNOLOGY  
FIRST YEAR**

**(Candidates admitted from 2019-2020 onwards – Paper II)**

**(Candidates admitted from 2020-2021 onwards – Paper III)**

**PAPER II & III – CONVENTIONAL RADIOLOGICAL AND IMAGING  
EQUIPMENT**

*Q.P. Code : 282502*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on: (2 x 20 = 40)**

1. Factors influencing Quality and intensity of X –rays.
2. Mammography unit.

**II. Write Short Notes on: (10x6 = 60)**

1. Space charge effect.
2. Focal spot size measurement.
3. Constant potential generator.
4. Anode heel effect.
5. Half value layer.
6. Kilovoltage circuit.
7. Anode rating chart.
8. Advantages of Image intensifier tube over fluoroscopic device.
9. Dental X-ray unit.
10. Various types of grid movements.

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