

[LN 1018]

OCTOBER 2018

Sub. Code: 1802

**M.Sc. RADIOLOGY AND IMAGING TECHNOLOGY EXAMS  
FIRST YEAR  
PAPER II – CONVENTIONAL RADIOLOGICAL AND IMAGING  
EQUIPMENT**

***Q.P. Code : 281802***

**Time: Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe in detail about technical aspects of Mammographic unit.
2. With a neat circuit diagram. Explain the working principle of High frequency X ray circuit.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Grid Controlled X-ray tube.
2. Moving coil Galvanometer.
3. Use of relay in diagnostic X-ray unit.
4. Beam limiting devices.
5. Image Intensifier tube.
6. Skull X-ray unit.
7. Measurement of focal spot size in X-ray tube.
8. Automatic Exposure Control.
9. Full wave rectifier.
10. Factors which depends on the control of scatter radiation?

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[LO 0519]

MAY 2019

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PAPER II – CONVENTIONAL RADIOLOGICAL AND IMAGING  
EQUIPMENT**

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**Time: Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Control of scattered radiation.
2. Mammography unit.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Beam limiting devices.
2. Vidicon camera tube.
3. Types of grids.
4. Ammeter and Voltmeter.
5. Filament Circuit.
6. Types of Filters.
7. Anode heel effect.
8. Stationary anode X-ray tube.
9. Main voltage compensator.
10. Anode rating chart.

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[LP 1019]

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**Time: Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Generation of X-ray tubes.
2. Mobile X-ray unit.

**II. Write notes on:**

**(10 x 6 = 60)**

1. 3 phase rectifier circuit.
2. Space charge compensation.
3. Moving coil galvanometer.
4. Automatic exposure control.
5. Dental X-ray unit.
6. Fluorescent material used in fluoroscopic screen.
7. Basic principle of cine fluoroscopy.
8. Measurement of focal spot of an X-ray tube.
9. High tension selector switch.
10. Grid controlled X-ray tube.

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