

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

**[AHS 0424]**

**APRIL 2024**

**Sub. Code: 1424**

**DIPLOMA IN RADIOGRAPHY AND IMAGING TECHNOLOGY  
FIRST YEAR (Regulation 2018-2019 onwards)  
PAPER IV – X-RAY FILM / IMAGE PROCESSING TECHNIQUES**

***Q. P. Code: 841424***

**Time: Three Hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain Automatic Film Processor and its Components.
2. Explain Intensifying Screen.
3. Define Artifact and explain any four Artifacts in X-ray.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Types of Safe light.
2. Cleaning of X-ray cassettes.
3. Types of film hangers.
4. Cones and its uses.
5. Replenisher.
6. Mammogram cassette.
7. Fixing agents.
8. Screen mottle Vs Quantum mottle.
9. Computed Radiography cassette.
10. Washing and Quick Drying process of X-ray film.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Temperature effect on developing.
2. Penumbra.
3. Film latitude.
4. Hatch Box.
5. Dichoric fog.
6. Curved Cassette.
7. What are panchromatic films?
8. Why is pH scale important in processing?
9. Dry Bench.
10. What is Hardner? Where it is present?

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