

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 1832

B.Sc. RADIOLOGY IMAGING TECHNOLOGY
SECOND YEAR (Regulation 2010-2011 & 2014-2015 onwards)
PAPER II – X-RAY FILM / IMAGE PROCESSING TECHNIQUES
(INCLUDING DARK ROOM TECHNIQUES)
Q.P. Code: 801832

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on :

(3 x 10 = 30)

1. Describe about the Automatic Processing Equipments with diagram.
2. Explain about the type of Dark Room Entrance with diagram.
3. What is HD Curve? Describe about the difference densities measured in Characteristic Curve.

II. Write notes on:

(8 x 5 = 40)

1. What are the Light Sensitive Materials and its uses?
2. Described about the types of X-ray films.
3. What is Safe light? Describe about the types of Safe light.
4. Describe about the Picture archiving and Communication system.
5. Explain about the Modular day light handling system.
6. Explain about the formation of latent image.
7. How will you give care and maintenance of Automatic Process Equipment?
8. What are the different types of Film Artifacts?

III. Short answers on:

(10 x 3 = 30)

1. What is Acid – Stop bath?
2. Define Quantum Mottle Artifact.
3. What is X-ray Film Hopper?
4. Define Dental X-ray film.
5. What is the preservative and its function?
6. Define Radiographic contrast.
7. What is Tele – Radiography System?
8. Draw a diagram of Dark Room Loading Bench and Master Tank Structure.
9. Define Optical Disc System.
10. What is Lobby light?
