

1843 – RADIOGRAPHY EQUIPMENTS, MAINTENANCE AND QUALITY

CONTROL RELATED TO X-RAY ONLY

UNIT 3

SUB TOPIC – 5 DIGITAL RADIOGRAPHY

I. Elaborate on

10 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference	Bloom's Taxonomy
1	Write down the principle of image formation in a DR system and explain in detail about the various components in it.	April 2022	Analyze
2	Explain construction and working of Digital Radiography.	April 2024	Analyze
3	Write in detail about Digital Radiography– principle - photostimulable phosphors-image acquisition-digital spot imaging - equipment parts – advances-imaging– advantages & disadvantages. Picture characteristics - archiving possibilities- transfer system and designs- Image recording devices-laser imager and multiformatter-Future developments.	-	Analyze

II. Write notes on

5 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference	Bloom's Taxonomy
1	Direct digital radiography.	February 2020	Understand
2	Types of DR and their advantages.	November 2023	Understand
3	Advantages of DR over CR	April 2022	Understand
4	Digital Subtraction Angiography.	April 2022	Understand
5	Direct digital radiography.	April 2023	Understand

III. WRITE SHORT NOTES ON

3 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference	Bloom's Taxonomy
1	Detector used in DR.	April 2023	Remember
2	DR detector.	November 2023	Remember
3	Pixel and Voxel.	April 2024	Remember

SUB TOPIC – 5 MAMMOGRAPHY

I. Elaborate on

10 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference	Bloom's Taxonomy
1	Describe with neat diagram, construction of X-ray mammography equipment.	August 2019	Analyze
2	Explain the principle and working of Mammography.	April 2024	Analyze
3	Write in detail about Mammography -basic principle, equipment & image acquisition-conventional & digital mammo studies-Mammotomogram.	-	Analyze

II. Write notes on

5 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference	Bloom's Taxonomy
1	Mammographic cassette and film.	August 2019	Understand
2	Mammographic x-ray tube.	February 2020	Understand
3	Mammographic x-ray tube.	March 2021	Understand
4	Principle of image formation in a mammography unit.	April 2022	Understand
5	Mammography.	November 2022	Understand
6	Mammographic X-ray tube.	April 2023	Understand

III. WRITE SHORT NOTES ON

3 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.No	Question	Reference	Bloom's Taxonomy
1	How will you improve the quality of mammographic image?	November 2022	Remember
2	Digital mammography.	April 2023	Remember
3	Target used in mammography unit.	April 2023	Remember
4	Molybdenum target.	April 2024	Remember
5	What are the target materials used in mammography unit? Why are they used?	November 2023	Remember