

1852 – MODERN IMAGING TECHNIQUES AND RECENT TRENDS IN IMAGING

UNIT 2

SUB TOPIC – 3 CT SCAN STUDIES ACQUISITION/ PROTOCOLS /TECHNIQUES

I.Elaborate on

10 MARKS

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

S.No	Question	Reference	Bloom's Taxonomy
1	Explain CT protocol for Acute stroke.	September 2022	Apply
2	Explain CT Triple phase and how hemangioma is identified.	September 2022	Analyze
3	Explain CT Perfusion protocol for Acute Stroke.	November 2023	Apply
4	Discuss Physics and Principles of Spiral CT and add a note on Multidetector CT.	April 2024	Analyze
5	Elaborate in detail the various imaging methods to evaluate a patient with intracranial aneurysmal bleed. Explain in detail the therapeutic interventional procedure for a patient with intracranial aneurysm and its complications.	April 2025	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	Advantages of MDCT.	January 2022	Understand
2	Beam hardening and Streak artifact in CT.	September 2022	Understand
3	Cone-Beam CT.	September 2022	Understand
4	Maximum and minimum intensity projection and MPR reconstruction in CT.	April 2023	Understand
5	Surface shaded display and Volume Rendering in CT.	November 2023	Understand
6	4D Computed Tomography.	April 2024	Understand
7	Modern dose reduction methods in CT scan imaging.	January 2025	Understand
8	CT cisternogram.	January 2025	Understand
9	T-tube cholangiography.	April 2025	Understand
10	HRCT Thorax.	April 2025	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	Low dose CT.	January 2022	Understand
2	HRCT.	September 2022	Understand
3	What is low dose CT?	April 2023	Understand
4	CT PNS.	April 2024	Understand
5	CT PNS.	April 2025	Understand

SUB TOPIC – 2 ULTRASONOGRAPHY/DOPPLER STUDIES

I. Elaborate on

10 MARKS

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

S.No	Question	Reference	Bloom's Taxonomy
1	Define Ultrasound and Modes of Ultrasound.	April 2023	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	TRUS.	January 2022	Understand
2	Doppler ultrasound.	January 2022	Understand
3	Linear Probe and its uses.	September 2022	Understand
4	Sector probe and its uses.	April 2023	Understand
5	Curvilinear Probe and its uses.	November 2023	Understand
6	Color Doppler Imaging.	April 2024	Understand
7	Describe color Doppler Imaging.	January 2025	Understand
8	What is the clinical application of Sonoelastography? Name any two organs in which it is applied to?	April 2025	Apply

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	List any three clinical applications of ultrasound.	January 2022	Remember
2	Deep vein thrombosis.	January 2022	Understand
	TVS scan.	January 2025	Remember