

Certificate CT scan Technician

Each Paper of 100 Marks

Figures in the brackets indicating no. of Lectures

Medium: - English

Course contents –

Paper I – Anatomy

Human Skeleton

(60)

Upper & lower Limb, Skull, Vertebral Column & Thorax

Systems

Digestive, Reproductive, Urinary, Respiratory, Circulatory, Central Nerves System,

Paper II Darkroom & Fundamentals Of X-Ray

Darkroom

(50)

Criteria & Purpose of Darkroom

Exposure of film, Entrance to Darkroom

Safety of darkroom, Safety of darkroom light, X-ray film with its structure Care of X-ray film
– Cassette –Screen

Film holders intensifying screen

Film processing –Developing Fixing rinsing washing drying store keeping record

Keeping

Preparation of solution – Developer Fixer

Fundamentals of X-ray

EM radiations, X-Ray tube, Properties of X-Ray in diagnostic

Radiology, other fundamental properties of X-Rays.

Accessories –X-Ray film, Cassettes with intensifier screens.

Stationary and moving grids, Body section radiographic equipments.

Fluoroscopic screen and fluoroscope, Image intensifier.

Other ancillary items of X-Ray equipment.- Shutter mechanism, Filtration

USE of radiation protection devices.

Fundamental geometry of image formation and interpretation.

(Image sharpness, Image distortion, Image magnification.

Film Identification –lead markers, General terms and concepts in diagnostics

Radiology

Paper III – C. T. Scan

100 marks.

Section –A

Anatomical Landmarks

Contents of Thorax, Abdomen, Pelvic

Introduction to skull

CT contrast medium,

Patient Preparation

Emergency Drugs

Section – B

Gray scale imaging. CT Terminology.
Computerized Topographic equipment
Computer hardware and software

Currently available CT scanners.

Scanning of Head-orbit, Temporal Bone, Neck, PNS, Thorax, Abdomen, Pelvic

Practical – 300 marks

Paper I – Anatomy

Spot -	(20)	40 Marks
Fill in the Blanks	(10)	20 Marks
Journal		20 Marks
Viva		20 Marks
Total		100 Marks

Paper II Darkroom & Fundamentals Of X-Ray

Spot -	(20)	40 Marks
Fill in the Blanks	(10)	20 Marks
Journal		20 Marks
Viva		20 Marks
Total		100 Marks

Paper III – C.T. Scan

100 marks.

Spot		20 Marks
Positioning	Practical +writing	40 Marks
Journal		20 Marks
Viva		20 Marks
Total		100 Marks
