

Certificate In X – Ray Technician

Each Paper of 100 Marks

Figures in the brackets indicating no. of Lectures

Medium: - English

Course contents –

Paper I – Anatomy

Human Skeleton

Upper & lower Limb, Skull, Vertebral Column & Thorax
Systems

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

Paper II Darkroom & Fundamentals Of X-Ray

Darkroom

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 – land markers, General terms and concepts in diagnostics radiology

Paper III –Positioning & Radiography

Section –A

Radiographic positioning –

Upper extremity, lower extremity, vertebral column and spinal cord.

Respiratory system, mediastinum and the heart, Skull radiography

Section –B

GIT radiography, Barium studies-swallow, meal follow through, enema,

Hysterosalpingography, Intravenous pyelography, Sialography, Sinography.

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	(20)	20 Marks
Viva		20 Marks

Total		100 Marks

Paper III –Positioning & Radiography

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