Question Paper

Exam Date & Time: 27-May-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER B.Sc. MIT DEGREE EXAMINATION - MAY/JUNE 2024 SUBJECT: MIT1201 - RADIOGRAPHIC POSITIONING AND TECHNIQUES - II (2020 SCHEME)

Marks: 100 Duration: 180 mins.

Answer all the questions.

1)	Explain the projections taken to visualize maxillary sinus.	(20)
2)	Explain in detail the anatomy of cervical spine with a labelled diagram. Explain the views taken for visualising C1 and C2 vertebrae.	(20)
3)	Explain in detail about Pediatric radiography.	(10)
4)	Explain the indications, positioning, centring, technical factors, structures seen and evaluation criteria for Frogs lateral view of pelvis.	(10)
5A)	Describe the projection taken to visualise optic foramina.	(5)
5B)	Illustrate the anatomy pelvis with a labelled diagram.	(5)
5C)	Explain the positioning for pelvic outlet view.	(5)
5D)	Explain the positioning, centring and evaluation criteria for Lumbar Spine lateral view.	(5)
5E)	Explain the structures seen and evaluation criteria for submento vertical view.	(5)
5F)	Compare the structures seen and evaluation criteria of Abdomen AP and KUB x-ray.	(5)
6A)	State the technical factors for thoracic spine lateral view.	(2)
6B)	Outline the anatomy of a typical cervical vertebra.	(2)
6C)	Outline the indications and contraindications for sacroiliac joint AP projection.	(2)
6D)	Recall the regions and quadrants of abdomen.	(2)
6E)	List the patient preparation and radiation protection measures taken while performing radiographic examinations for a female patient.	(2)

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Question Paper

Exam Date & Time: 29-May-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER B.Sc. MIT DEGREE EXAMINATION - MAY/JUNE 2024 SUBJECT: MIT1202 - DIGITAL IMAGING AND IMAGE PROCESSING METHODS IN RADIOGRAPHY (2020 SCHEME)

Marks: 100 Duration: 180 mins.

Answer all the questions.

1)	Explain in detail about the construction of the Intensifying Screen. Add note on types of screens and care of the intensifying screen.	(20)
2)	Illustrate the components, workflow and image formation of DR.	(20)
3)	Explain in detail about the Cassettes construction.	(10)
4)	Summarize the workflow of the PACS.	(10)
5A)	Explain the steps involved in manual processing.	(5)
5B)	Illustrate the construction of the film.	(5)
5C)	Explain the types of Darkroom entrances.	(5)
5D)	Explain steps involved in images formation in CR.	(5)
5E)	Explain the characteristics of Latent Images.	(5)
5F)	Explain the principle of Macroradiography.	(5)
6A)	List the various artefacts seen in CR.	(2)
6B)	Define crossover effect.	(2)
6C)	Define Image contrast.	(2)
6D)	List the constituents of the developer solution.	(2)
6E)	Define sensitometry.	(2)

