

Question Paper

Exam Date & Time: 08-Aug-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1) | Illustrate the anatomy of pelvic girdle. Explain the positioning for Judet view. | (20) |
| 2) | Discuss in detail the projections taken for Acute abdomen. | (20) |
| 3) | Explain the radiographic projection taken for visualizing jugular foramina. | (10) |
| 4) | Explain Lumbar Spine flexion and extension views. | (10) |
| 5A) | Describe the positioning technique and centering to see cervico-thoracic junction. | (5) |
| 5B) | Explain the structures seen and evaluation criteria for Pillars view. | (5) |
| 5C) | Describe the role of x-ray technologist while performing paediatric radiography. | (5) |
| 5D) | Explain the positioning for coccyx Nolke method. | (5) |
| 5E) | Explain the positioning technique, centering, structures seen and evaluation criteria of Towne's view. | (5) |
| 5F) | Explain the indications and patient preparation for KUB X-ray. | (5) |
| 6A) | List the indications for C-Spine hyperflexion and hyperextension X-ray. | (2) |
| 6B) | Explain the patient preparation for Frog lateral view. | (2) |
| 6C) | State the centring for Caldwell view. | (2) |
| 6D) | State the centering for Schullers view. | (2) |
| 6E) | State the technical factors used in thoracic spine lateral. | (2) |

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Question Paper

Exam Date & Time: 09-Aug-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

Marks: 100

Duration: 180 mins.

Answer all the questions.

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| 1) | Explain in detail about image characteristics | (20) |
| 2) | Explain the Image formation in DR and compare direct and indirect DR. | (20) |
| 3) | Explain the steps involved in manual processing | (10) |
| 4) | Explain steps involved in Image formation in computed radiography. | (10) |
| 5A) | Explain the manufacture of light and x-ray sensitive emulsion | (5) |
| 5B) | Define Macroradiography and illustrate unsharpness related to macroradiography | (5) |
| 5C) | Explain various film artifacts | (5) |
| 5D) | Discuss the health and safety precautions to be taken in darkroom. | (5) |
| 5E) | Explain latent image formation | (5) |
| 5F) | Explain screen construction and classify types of Phosphors | (5) |
| 6A) | What are photosensitive materials? Give an example | (2) |
| 6B) | Define Luminescence | (2) |
| 6C) | What are the advantages and disadvantages of DR? | (2) |
| 6D) | List the components of developer solutions | (2) |
| 6E) | Define PACS. List the various components of PACS system | (2) |

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