

Program	Institute
M.Sc. Medical Imaging Technology (MIT)	Manipal College of Health Professions (MCHP) Manipal

Department Test (DT) 2022 Details

- Test Duration: 60 minutes
- Total Questions: 60 MCQs
 - Radiation physics, Instrumentation and Safety (10 Qs), Radiographic Positioning and Procedures (10 Qs), Basic and Advances in Ultrasound (10 Qs), Basics and Advances in Computed Tomography (10 Qs), Basics in Magnetic Resonance Imaging (10 Qs) and Basics in Interventional Radiology (10 Qs)
- Max Marks: 60
- Marking Scheme: **No Negative marking**
- Schedule & Mode: Refer www.manipal.edu/dt for updates

RADIATION PHYSICS, INSTRUMENTATION AND SAFETY

Properties and Production of X-rays, X-ray tube and its types, Interactions of X-rays with matter, X-ray circuits, Beam limiting devices, Factors effecting image quality, Fluoroscopy, Principles of radiation biology, Computed Radiography, Digital Radiography, Radiation safety

RADIOGRAPHIC POSITIONING AND PROCEDURES

Radiographic positioning techniques and special views– upper and lower extremities, skull, thorax, abdomen, Pelvis, Radiographic procedures: CNS, GIT, GUT, Respiratory, CVS, Biliary, Contrast media, other special procedures

BASIC AND ADVANCES IN ULTRASOUND

Introduction to ultrasound, Instrumentation, Display modes, Doppler techniques, Artifacts, USG protocols, PCPNDT

BASICS AND ADVANCES IN COMPUTED TOMOGRAPHY

Principle and Instrumentation of CT, Generations, CT detector, Image processing, CT Artifacts, Image quality, CT guided procedures, CT Protocols, Dosimetry and Dose optimization techniques

BASICS IN MAGNETIC RESONANCE IMAGING

Principle and Instrumentation of MRI, Image formation, MR artifacts, Parameters and trade off, Pulse sequences, MR contrast media, MR safety, MR Protocols, Recent advances, Safety

BASICS IN INTERVENTIONAL RADIOLOGY

Principle of DSA, DSA techniques, Instrumentation of Biplane system, Angiographic room design, various Interventional procedures and materials used

♣ Best of Luck ♣

Updated: 1.30 PM, Jan 31, 2022