Question Paper

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



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. MIT DEGREE EXAMINATION - MAY/JUNE 2024 SUBJECT: MIT2201 - RADIATION SAFETY IN RADIO DIAGNOSIS (2020 SCHEME)

Marks: 100 Duration: 180 mins.

Answer all the questions.

1)	radiation dose in fluoroscopy.	(20)
2)	Explain in detail acute radiation syndrome.	(20)
3)	Explain in detail about area monitoring devices.	(10)
4)	Outline the design and working principle of film badge in detail.	(10)
5A)	Explain occupancy factor and use factor.	(5)
5B)	Explain in detail about filters used in radiography.	(5)
5C)	Compare deterministic and stochastic effects of radiation.	(5)
5D)	Illustrate primary and secondary barriers.	(5)
5E)	Discuss in detail the radiation precaution measures taken for female patients.	(5)
5F)	Explain the technical protective considerations in general radiography.	(5)
6A)	Define prenatal effects of radiation.	(2)
6B)	Define radiation weighting factor.	(2)
6C)	Define MPD and state the whole-body dose for occupational worker and public.	(2)
6D)	Define DLP.	(2)
6E)	List the natural and artificial sources of radiation.	(2)

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Question Paper

Exam Date & Time: 05-Jun-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. MIT DEGREE EXAMINATION - MAY/JUNE 2024 SUBJECT: MIT2241 - PROGRAM ELECTIVE - I : ADVANCED IMAGE GUIDED PROCEDURES (2020 SCHEME)

Marks: 50 Duration: 120 mins.

Answer all the questions.

1)	Discuss in detail the radiological procedure of Angioplasty	(10)
2)	Explain in detail about the radiological procedure of Vertebroplasty and Kyphoplasty	(10)
3A)	Define embolization. Add a note on types and classification of the embolic agent	(5)
3B)	Explain in detail about the radiological procedure of T-tube cholangiography	(5)
3C)	List the patient preparation and equipment used for TIPS	(5)
3D)	Explain in detail about the radiological procedure of TACE	(5)
4A)	List the complication and after care for IVC filter placement	(2)
4B)	Recall the anatomy related to PTC.	(2)
4C)	List the equipment used and patient preparation for nerve block procedure	(2)
4D)	List the indication and contraindication of lower limb angiography	(2)
4E)	List the equipment used and patient preparation for PTBD	(2)

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