Question Paper

Exam Date & Time: 21-Feb-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER B.Sc. MEDICAL RADIOTHERAPY TECHNOLOGY DEGREE EXAMINATION - FEBRUARY 2019

SUBJECT: BRTT 305 - RADIATION SAFETY (2016 SCHEME)
Thursday, February 21, 2019 (14.00 - 17.00)

Marks: 100 Duration: 180 mins.

Answer all the questions.

1)	Define LD 50. Write the difference between stochastic and deterministic effect.	(20)
2)	Write a note on different personnel monitoring devises.	(20)
3A)	Mention the responsibility of employer.	(10)
3B)	Briefly explain the radiation emergencies in radiotherapy facilities.	(10)
4A)	Discuss the different daily quality assurance tests to be performed for LINAC.	(5)
4B)	Write a short note on personal monitoring instruments.	(5)
4C)	Briefly explain the need of radiation protection.	(5)
4D)	Briefly explain dose limits prescribed by ICRP(60).	(5)
4E)	Mention the responsibility of Radiation Safety Officer.	(5)
4F)	Write a short note on inverse square law.	(5)
5A)	What are the advantages of film dosimeter?	(2)
5B)	Define stochastic and deterministic effect.	(2)
5C)	Mention the various categories of radiation quantities.	(2)
5D)	Define half life.	(2)
5E)	Define radiation weighting factor.	(2)

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