Question Paper

Exam Date & Time: 01-Sep-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER B.Sc. RADIO THERAPY TECHNOLOGY DEGREE EXAMINATION - SEPTEMBER 2022 SUBJECT: RTT2241 - PHYSICS OF BRACHYTHERAPY (PROGRAM ELECTIVE - I) (2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

1)	Discuss in detail the brachytherapy treatment technique.	(10)
2)	Discussion in detail the specification of any four brachytherapy sources.	(10)
3A)	What are the ideal characteristic of brachytherapy source.	(5)
3B)	Write a short note on TG 43 formalisim.	(5)
3C)	Write a short note on Intracavitary therapy.	(5)
3D)	Discuss about bladder and rectum point in intracavitory brachytherapy.	(5)
4A)	Define point A and point B.	(2)
4B)	Mention the classification of brachytherapy based on dose rate.	(2)
4C)	Mention the various sources used in permanent implant brachytherapy.	(2)
4D)	Sievert integral method.	(2)
4E)	Mention the half life, specific activity and exposure rate constant of Irridium 192 source.	(2)

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