THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0423]

APRIL 2023

Sub. Code: 1933

B.Sc. RADIOTHERAPHY TECHNOLOGY SECOND YEAR (Regulations 2014-2015 & 2018-2019 onwards) PAPER III – RADIOTHERAPY TECHNIQUES Q.P. Code : 801933

Time: Three hoursAnswer ALL Questions			Maximum: 100 Marks	
I.	Ela	aborate on:		$(3 \times 10 = 30)$
	2.	Immobilization devi	oout Electron Beam Therapy. ces and its role in Radiotherapy. s of Chemoradiation.	
II. Write Notes on:				(8 x 5 = 40)
	1.	Dose Volume Histog	gram.	
		Percentage depth do		
	3.	Isodose curve.		
	4.	CT/MRI in tumor lo	calisation.	
	5.	Linear Energy Trans	sfer.	
	6.	SAD technique.		
	7.	ICRU 62.		
	8.	Intraluminal Brachy	therapy in Carcinoma Oesophagus	5.
III. Short Answers on:				(10 x 3 = 30)
	1.	Short course preoper	rtive Radiotherapy in Carcinoma I	Rectum.
	2.	Advantages of Intra	operative Radiotherapy.	
	3.	Hyperfractionation.		

- 4. Tumour Registry.
- 5. Megavoltage cone beam CT.
- 6. Tissue Air Ratio.
- 7. High dose rate Brachytherapy.
- 8. Penumbra.
- 9. Relative biological effectiveness.
- 10. Involved field Radiotherapy.
