Seat	No	•
Juli	110.	•

Enrolment No. _____

PARUL UNIVERSITY

DEPARTMENT OF PARAMEDICAL AND HEALTH SCIENCES

B.Sc. Med. Sci., April – 2023 Examination.

Year: 2 Subject Code: 19111203 Subject Name: RD MOD-3 Equipment of Radiotherapy			Date: 05/04/2023 Time: 10:00am to 10:45am Total Marks: 30		
					Instr
1. Att	empt all ques	tions from each section			
2. Fig	ures to the rig	ght indicate full marks.			
3. Ma	ke suitable as	sumptions wherever necessary	у.		
Q.1:	Definition	(any 5 out of 6)	(Each 1 Mark)	05 marks	
	(i) What radiation source is used in Tele gamma Machine				
	(ii) What radiation source is used in Remote after loading system				
	(iii) Define isocenter				
	(iv) What is	LINAC			
	(v) Nominal Energy used in Accelerator for Treatment				
	(vi) What Dosimetry system used in Brachytherapy				
Q.2:	: Short question (any 5 out 6) (Each 2 Mark)			10 marks	
	(i) Define Radiotherapy				
	(ii) Define Collimator				
	(iii) What is simulator and why it is used				
	(iv) Explain about Brachytherapy				
	(v) What is bending magnet and where it will be located				
	(vi) Define Styrofoam cutting System				
Q.3:	Long quest	ion (any 3 out of 4)	(Each 5 Mark)	15 marks	
	(i) What is linear accelerator explain in detail				
	(ii) Explain about Tele Gamma Radiotherapy machine				
	(iii) Discuss about Klystron				
	(iv) Difference between Tele Radiotherapy and Brachytherapy				