QP CODE: 201018	Reg. No
Second Year B.Sc MRT Degree Regular and Supplementary Examinations August 2019	
Radiation Phys	ics I Total Marks:100
Answer all questions	
Essays:	(3x10=30)
 Describe the principle of computed tomograph generations in detail Describe the structure of X-ray film and explai Explain different radiation quantities and their 	n film processing
Short notes:	(8x5=40)
 Dental radiography Digital radiographic artifacts Characteristic curve of radiographic film Describe automatic film processor Intensifying screen Speed and noise of the screen Scintillation detectors Grids and grid ratio Answer briefly: 	(10x3=30)
12. Photoelectric absorption 13. CT number 14. Equivalent dose and effective dose 15. Developing of a film 16. Ionization chamber 17. Self-rectifier circuit 18. Flat panel detectors 19. Contrast and sharpness of radiographic image 20. Stroboscopic effect	9

21. Image receptors