QP CODE: 303018	Reg. No

Third Year B.Sc MRT Degree Regular/Supplementary Examinations March 2022

Radiation Physics II

Time: 3 Hours	Max Marks: 100
	max marks: 100

- Answer all questions to the point neatly and legibly
 Do not leave any blank pages between answers
 Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essays: (3x10=30)

- 1. Describe the depth dose characteristics of electron beam, factors influencing it, isodose curves for varying beam energies.
- 2. Beam modifying devices
- 3. Construction and working of LINAC

Short notes: (8x5=40)

- 4. Multileaf collimators
- 5. PDD
- 6. Treatment planning with SSD technique.
- 7. TPS
- 8. Proton beam treatment
- 9. Electronic portal imaging
- 10. DVH
- 11. Isotops in brachytherapy.

Answer briefly: (10x3=30)

- 12. Bolus
- 13. lr 192
- 14. Wedge angle
- 15. Tissue compensators.
- 16. Back pointer
- 17. Integral dose
- 18.PTV
- 19. CT simulator
- 20. Immobilisation technique for CA vocal cord radiation.
- 21.TAR
