QP Code: 101117	Reg. No.:
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PG Degree Regular/Supplementary Examinations in Radiation Oncology (MD) July 2023

Paper I – Radiation Physics, Radiobiology & Other Basic Sciences

Time: 3 hrs 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

Essay: (20)

1. Describe Interaction of energy with matter. Illustrate with examples their clinical application.

Short essays: (8x10=80)

- 2. ICRU recommendations regarding brachytherapy in carcinoma cervix.
- 3. Illustrate 4Rs of radiation with examples.
- 4. Compare and contrast Telecobalt unit versus linear accelerator.
- 5. List different ways of measuring radiation absorbed dose and explain any two.
- 6. SSD versus SAD technique
- 7. Second cancers following radiation.
- 8. LET, OER, RBE
- 9. Radiosensitizers
