

QP Code: 101117

Reg. No.:.....

**PG Degree Supplementary Examinations in Radiotherapy (MD)  
December 2020**

**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. What are Beam Modifying devices. Explain in details about them.

**Short essays:**

**(8x10=80)**

2. Interaction of radiation with matter
3. Iridium 192
4. Percentage depth dose
5. Thermo luminescence dosimeter
6. Linear Quadratic Model
7. Stochastic and deterministic effects of radiation
8. Therapeutic ratio
9. Neutrons in clinical practice

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