

QP Code:101117

Reg.No.:.....

PG Degree Examinations in Radiotherapy (MD) - June 2016

Paper I – Radiation Physics, Radiobiology & Other Basic Sciences

Time: 3 hrs

Max marks:100

- ***Answer all questions***
- ***Draw diagrams wherever necessary***

Essays: (20)

1. Describe various dosage systems useful in brachytherapy and merits and demerits of low, high and pulse dose rate brachytherapy.

Short essays: (8x10=80)

2. Compensators in radiotherapy
3. Linear energy transfer
4. Quality assurance in radiotherapy
5. Californium 252
6. Oncogenes
7. Anatomy of hypopharynx and lymphatic drainage
8. Various effects of interaction of radiation with matter
9. Phase I, II, III clinical trials.
