

QP Code:101117

Reg.No.:.....

PG Degree Examinations in Radiotherapy (MD) - June 2015

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 the relevance of time, dose and fractionation in radiotherapy. Add a note on altered fractionation schedules and its importance in treatment.

Short essays: (8x10=80)

2. Treatment planning system
3. Thermo luminescence dosimeter
4. Systematic and random errors
5. Dose volume histogram
6. Organ at risk(OAR)
7. Pair production
8. Ca 252
9. Hyperthermia
