

QP Code:101117

Reg.No.:.....

**PG Degree Examinations in Radiotherapy (MD) - May 2014**

**Paper I – Radiation Physics, Radiobiology & Other Basic Sciences**

**Time: 3 hrs**

**Max marks:100**

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

**Essays: (20)**

1. What is immobilization in radiotherapy and explain the impact of stabilization devices on external beam set up & reproducibility.

**Short essays: (10x8=80)**

2. Oxygen enhancement ratio
3. Total body irradiation
4. Tomotherapy
5. Tissue compensator
6. Half value layer
7. Integral dose and its implications
8. Ir<sup>192</sup>
9. Photo dynamic therapy

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