

QP Code:101117

Reg.No.:.....

**PG Degree Supplementary Examinations in Radiotherapy (MD) -  
November 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. Explain in detail time, dose and fractionation in radiotherapy. What is Ellis nominal standard dose equation and explain how it is practically useful in radiotherapy practice.

**Short essays:** (8x10=80)

2. Universal wedge
3. The 4 'r' s, in radiobiology
4. Anatomy of nasopharynx and its lymphatic drainage.
5. Pathological classification of Hodgkin's lymphoma
6. Quality assurance in radiotherapy
7. Compton effect and its significance
8. Iridium 192
9. Retrospective and prospective studies

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