

QP Code:101188

Reg.No.:.....

**P.G. Diploma Supplementary Examinations in Medical  
Radiotherapy (DMRT) – November 2013**

**Paper I – Radiation Physics**

**Time: 3 hrs**

**Max marks:100**

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

**Essay:**

**(20)**

1. Discuss the structure and working of a linear accelerator. List the advantages of linear accelerator over cobalt machines.

**Short essays:**

**(8x10=80)**

2. Beam modifiers in radiotherapy
3. Concurrent chemo radiations
4. Percentage depth dose
5. I 131
6. Ophthalmic brachytherapy applications in clinical practice
7. Photo dynamic therapy
8. Biological effects seen after an accidental whole body exposure to radiation.
9. Radio sensitivity and radio curability.

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