

QP Code:101188

Reg.No.:.....

**P.G. Diploma Examinations in Medical Radiotherapy (DMRT) –
May 2014**

Paper I – Radiation Physics

Time: 3 hrs

Max marks:100

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

Essay:

(20)

1. What is ionisation. Describe photon beam attenuation and interaction of radiation with matter.

Short essays:

(8x10=80)

2. Proton beam radiotherapy
3. Inverse square law
4. Multi leaf collimeter
5. Cell survival curve
6. RBE
7. Re-oxygenation
8. Immobilisation in radiotherapy
9. Beam modifiers
