

QP Code: 101188

Reg. No.:.....

**P.G. Diploma Supplementary Examinations in Medical Radiotherapy
(DMRT) October 2018**

Paper I – Radiation Physics

Time: 3 hrs

Max marks: 100

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

Essay:

(20)

1. Describe the personal monitoring devices use in radiotherapy. Define unit of radiation protection and Maximum Permissible Dose for radiological and non-radiological workers.

Short essays:

(8x10=80)

2. Multi Leaf Collimators (MLC)
3. Radio sensitizers
4. Compton Effect
5. Perineal template brachytherapy
6. Target volumes in radiotherapy
7. Half Value Layer (HVL)
8. Iridium 192.
9. Altered fractionation schedules
