QP Code: 101188 Reg. No.:.....

P.G. Diploma Examinations in Medical Radiotherapy (DMRT) April 2018

Paper I - Radiation Physics

Time: 3 hrs Max marks:100

- Answer all questions
- Draw diagram wherever necessary

Essay: (20)

Describe in detail the establishment of a radiotherapy department. Explain in detail
the radiation safety and radiation protection aspect of establishing the tele therapy
wing and brachytherapy wing adjacent to it and other essential components of
radiotherapy department.

Short essays: (8x10=80)

- 2. Tomo therapy
- 3. DVH dose volume histogram
- 4. BNCT boron neutron capture therapy
- 5. Percentage depth dose
- 6. Heavy particle radiotherapy
- 7. SRT stereotactic radiotherapy
- 8. Radiation safety measures in HDR brachytherapy machine
- 9. Hyper fractionation in radiotherapy
