PG Degree Supplementary Examinations in Radiotherapy (MD) -November 2014

Paper I – Radiation Physics, Radiobiology & Other Basic Sciences

Time: 3 hrs

- Answer all questions
- Draw diagrams wherever necessary

Essays:

1. Explain about the various principles of radiation protection and describe the various personnel monitoring devices

Short essays:

- 2. Particle therapy
- 3. Discuss cell cycle and its relevance to radiotherapy
- 4. Beam flattening devices
- 5. Integral dose
- 6. Isotopes used in brachy therapy
- 7. Describe the cellular injury by ionizing radiation and the different factors which modify the injury
- 8. Describe the importance of immobilization in modern radiotherapy. Mention the different immobilization and alignment techniques
- 9. Simulator

QP Code:101117

Reg.No.:....

(20)

Max marks:100

(10x8=80)