Reg.No.:....

Max marks:100

(20)

(10x8=80)

PG Degree Examinations in Radiotherapy (MD) - May 2013

Paper I-Radiation Physics, Radiobiology & Other Basic Sciences

Time: 3 hrs

- Answer all questions
- Draw diagrams wherever necessary

Essays:

1. Explain the working, advantages and disadvantages of telecobalt machine when compared to a linear accelerator

Short essays:

- 2. Wedge filters
- 3. Portal Imaging
- 4. Syndromes due to acute radiation exposure
- 5. Various modes of cell death following radiotherapy
- 6. Brachy therapy sources and its clinical application
- 7. Mechanism of carcinogenesis
- 8. Cell survival curve
- 9. Tumor control probabilitY