

QP Code: 101117

Reg. No.:.....

PG Degree Examinations in Radiotherapy (MD) April 2018

Paper I – Radiation Physics, Radiobiology & Other Basic Sciences

Time: 3 hrs

Max marks:100

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

Essay:

(20)

1. Describe in detail, the evolution of brachytherapy techniques of cervical cancer with neat labelled diagram. Explain briefly the dose and volume specification for reporting intracavitary therapy using ICRU 38 system. Define all the reference points as per ICRU 38. What all the radiobiological advantages and disadvantages of various dose rate systems.

Short essays:

(8x10=80)

2. TARGIT
3. Hyperthermia
4. Wedges
5. Respiratory gating
6. Radio sensitivity of tumours
7. Informed consent
8. IGRT
9. Stranquist curve
