

QP Code: 104117

Reg. No.:.....

**PG Degree Supplementary Examinations in Radiotherapy (MD)
October 2019**

Paper IV - Recent Development in Clinical Oncology

Time: 3 hrs

Max marks:100

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

Essay: (20)

1. Discuss in detail about the indications and rationale of accelerated partial breast irradiation. Explain in detail about the techniques of APBI in early breast cancer

Short essays: (8x10=80)

2. Carbon ion therapy and its clinical implications
3. Adaptive radiation therapy
4. Current management of multiple myeloma
5. Tumour vaccines
6. Stem cell transplantation
7. SBRT in early stage lung cancer
8. Merits and demerits of altered fractionation
9. Management of radiation induced cystitis
