

QP Code: 104117

Reg. No.:.....

**PG Degree Supplementary Examinations in Radiotherapy (MD)
December 2020**

Paper IV - Recent Development in Clinical Oncology

Time: 3 hrs

Max marks:100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay:

(20)

1. Describe principles of application of PET in oncology. Discuss its current status based on available literature in RT planning of lung cancers

Short essays:

(8x10=80)

2. Immunotherapy – rationale and indications
3. 4DCT and respiratory gating
4. RT in non-malignant diseases. Describe treatment planning for one of them
5. Organ preservation in urinary bladder cancer
6. Dysphagia Aspiration Related Structures (DARS)
7. Adaptive radiotherapy
8. Proton therapy in children - rationale and indications
9. Molecular stratification of medulloblastoma
