

**PG Degree Supplementary Examinations in Radiation Oncology  
(MD) January 2024**

**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. Write a brief note on SBRT in liver tumors and radiobiological principle behind stereotactic therapy

**Short essays:** **(8x10=80)**

2. Mention the advantages of plan evaluation in radiotherapy and indications for the same
3. Briefly mention the indications of sorafenib with its toxicity profile
4. Explain the principle of BRAGG-PEAK in radiotherapy
5. Mammosite
6. What is RFA and its role in oncology practice
7. What is the role of radiation in myositis ossificans with radiobiology behind the same
8. Clinical application of 4DCT in radiotherapy
9. Immuno therapy in lung cancer