

QP Code: 102117

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Radiation
Oncology (MD) November 2025**

Paper II - General Principles and Clinical Practice of Radiotherapy

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. Outline the treatment plan for a pT2N0M0 carcinoma of the right lateral border of the tongue. What factors in the histopathology report will help you arrive at your decision. Describe the treatment plan, the target volumes and the dose if the histopathology report showed a single level 2 node 2 x 2 cm with extranodal extension. (3+7+3+5+2)

Short essays:

(8x10=80)

2. When can you avoid whole breast radiation after breast conservation. When can you avoid a boost to the lumpectomy cavity after breast conservation. Justify your answer with evidence (2+2+6)
3. What are lateral lymph nodes in rectal cancer. When will you consider a lateral lymph node dissection after neoadjuvant treatment (5+5)
4. Describe the target volumes, suitable dose and energy for T3N0M0 squamous cell carcinoma of the anal canal. Outline a suitable follow-up schedule. Justify your answer. (4+1+1+4)
5. Discuss the treatment of a 0.5 x 0.5 x 0.5 cm basal cell carcinoma of the upper eyelid
6. List the regional nodes in carcinoma cervix. Describe the contouring limits of the external iliac, internal iliac and obturator nodes in carcinoma cervix (1+3+3+3)
7. Discuss the pathophysiology of radiation-induced lung injury. How will you mitigate it (6+4)
8. Discuss the various Radiation Oncological emergencies and its management
9. What are the premalignant conditions of oral cavity and how will you manage them
