

QP Code: 102117

Reg. No.:.....

**PG Degree Supplementary Examinations in Radiation Oncology
(MD) April 2026**

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. A patient with Stage III non-small cell lung cancer.
 - a) Indications for definitive chemoradiation.
 - b) Dose prescription and technique (IMRT/3DCRT).
 - c) Organ at risk constraints.
 - d) Role of consolidation immunotherapy. (5+5+5+5)

Short essays: (8x10=80)

2. Nasopharyngeal carcinoma is treated with IMRT. Explain the target delineation principles. Dose prescription and OAR constraints. (5+5)
3. Outline the staging workup and relevant investigations for anal canal carcinoma. Describe the standard concurrent chemotherapy regimen. Enumerate the expected acute and late. (3+4+3)
4. Role of SRS vs WBRT in single brain metastasis with dose schedules. (6+4)
5. Explain the grading of oral mucositis and discuss its management. (3+7)
6. A 54-year-old male with locally advanced rectal adenocarcinoma (cT3N1) is receiving long-course neoadjuvant chemoradiation. During week 4 of treatment, he presents with fever to the emergency. Discuss the immediate evaluation and management. Outline the modification of ongoing treatment. (5+5)
7. Indications for adjuvant whole breast radiotherapy after BCS in invasive breast cancer and. Enumerate the indications for tumor bed boost. In what scenarios can we consider avoiding radiotherapy in patients who have undergone BCS (4+4+2)
8. Outline the complete staging workup for carcinoma esophagus required before initiating treatment. Discuss the treatment options available for operable esophageal carcinoma. Discuss the radiotherapy plan for the same (3+3+4)
9. Outline the staging workup and investigations required in a newly diagnosed patient with Hodgkin lymphoma. Provide an overview of treatment strategies based on stage and risk stratification, including the role of chemotherapy and radiotherapy. (5+5)

CORRECTION / NO-CORRECTION FILE
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QPCODE: 102117

Dated: 20-04-2026

Question No.3.

Corrected as "Outline the staging workup and relevant investigations for anal canal carcinoma. Describe the standard concurrent chemoradiation treatment. Enumerate the expected acute and late radiation toxicities."

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS