

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

**Paper III - Clinical Oncology & Cancer Chemotherapy**

**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. Discuss the indications for partial breast irradiation. Discuss the various techniques, and dose and fractionation schedules. Justify the optimal technique and dose fractionation schedule with evidence (6+4+4+6)

**Short essays:**

**(8x10=80)**

2. Describe the relevance of microsatellite instability in rectal cancers. How will it affect management. Justify your answer with evidence (3+2+5)
3. TBI – Its role and evidence in bone marrow transplant
4. Describe the immunohistochemical and molecular markers in paediatric low-grade glioma
5. What are the premalignant conditions of the oral cavity
6. Describe a suitable treatment plan for a 63-year-old male with no comorbidities with HPV-positive cT3N0M0 carcinoma base of the tongue. Describe the target volume, fields, the dose and the normal tissue constraints. (2+2+2+2+2)
7. Management of arteriovenous malformation
8. Hormonal management of Breast Cancer
9. Describe indications, technique, planning and dose fractionation of brachytherapy in carcinoma endometrium. (2+3+3+2)

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