

RADIOTHERAPY

PAPER - II

RTH/D/13/41/II

Time : 3 hours

Max. Marks : 100

Important instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

1. Write short notes on Whole Brain Radiation Therapy and RTOG recommendations for the same. 6+4
2. What is re-irradiation? What factors will you take into consideration and why, when re-irradiating head-neck cancers? 3+7
3. What is OAR & how different it is from OER. Describe the care you would take of all OARs while treating a pelvic malignancy. 5+5
4. How can chemotherapy and radiotherapy result in endocrine effects in a pediatric and adult population? Outline management strategies. 5+5
5. What are the indications and contra-indications for breast conserving surgery? Enumerate various techniques to deliver APBI. Write most common dose schedule used for APBI. 5+3+2
6. Using one clinical site as an example elaborate on the factors that help you to decide on the technique and aims of radiotherapy? 10
7. Give Chemotherapy schedules for gastric and colo-rectal cancers, treated with a curative and palliative intent. 10
8. What could be the palliative care needs of a patient with breast cancer during her life time? Describe one strategy for addressing each possible situation. 5+5
9. Justify the role of radiation in epithelial ovarian tumours in the current era of effective integration of surgery and chemotherapy. Describe techniques and their advantages/disadvantages. 5+5
10. Describe volumes and portals for irradiation of carcinoma of nasopharynx. 5+5
