



RADIOTHERAPY

PAPER – III

RTH/D/14/41/III

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. Discuss the indications, technique and clinical results of radiation therapy in Ewing's sarcoma of femur. 3+5+2
2. Write the classification of rhabdomyosarcoma. Discuss the staging system and risk groups of rhabdomyosarcoma. How will you treat a patient of rhabdomyosarcoma involving prostate? 2+3+5
3. Discuss the therapeutic options of a 46 year old teacher having carcinoma supraglottic larynx T3N1M0, who refuses to undergo surgery. 10
4. Discuss the role of total body radiation therapy in modern practice of oncology. Describe its technique and results. 5+5
5. Discuss in detail the role of chemotherapy in gliomas. Write agents, mechanism of action, indications and results. 3+7
6. Discuss the role of non-sealed radionuclide therapy for palliation of bone metastasis. Describe the agents, their physical characteristics, dose schedules and results. 4+6
7. Describe Everolimus under following headings:
 - a) Indications 2
 - b) Dose schedule 2
 - c) Mechanism of action 2
 - d) Side effects 2
 - e) Clinical results 2
8. Classify epidermal growth factor receptors. Discuss the role of Lapatinib in modern practice of oncology. 3+7
9. What are the different manifestations of radiation induced heart disease? Write the radiation tolerance dose of cardiac tissues. 5+5
10. Describe the indications, technique and results of radiotherapy in craniopharyngioma. 2+5+3
