

PAPER – II

RTH/D/14/41/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.

f	What are different therapeutic classes of endocrine manipulation for breast cancer? How will you select a hormonal agent in pre or post menopausal women and why? What is the ideal duration of hormonal therapy in adjuvant setting?	5+4+1
i	Describe the stage-wise incidence of pelvic and para aortic nodal involvement in carcinoma cervix. Discuss the role of para aortic radiation in carcinoma cervix.	5+5
\ 8	What are the indications of brachytherapy for carcinoma prostate? Which radioisotopes are used for permanent prostate implants and what are their dose recommendations? Enumerate the side effects of prostate brachytherapy.	5+3+2
	Discuss the indications, dose schedule, technique and results of radiation therapy in Wilm's tumor.	2+1+5+2
	What is Hadron therapy? Discuss the indications and radiobiological basis of Hadron therapy.	2+(3+5)
	Describe the rationale, methods and clinical results of accelerated ractionation schedules in radiotherapy.	3+3+4
	Discuss the indications, technique and results of prophylactic cranial irradiation in lung cancer.	3+4+3
	Discuss the rationale, technique and results of post operative chemoradiation in head and neck cancer.	3+4+3
	Describe Boron Neutron Capture Therapy. Discuss its advantages, disadvantages and clinical applications.	4+6
	Define specific activity and list specific activity of commonly used sources in radiotherapy.	3+7
