RADIOTHERAPY

PAPER - IV

RTH/J/16/41/IV

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.

Write short notes on:

1.	Isotopes in use for genitorurinary brachytherapy.	10
2.	Compare Gamma Knife with X-Knife.	10
3.	Enumerate investigation profiles along with tumor markers for lung cancers & ovarian cancer in view of modern therapeutic approach.	5+5
4.	Rationale and technique of intraoperative radiation therapy.	4+6
5.	Enumerate radioisotopes used for PET scan alongwith their half lives. Provide evidence of usefulness of PET scan in oncological management of cancers.	4+6
6.	What are the advantages and disadvantages of fast neutron radiotherapy? Give appropriate clinical examples.	5+5
7.	Therapeutic ratio and its clinical significance.	10
8.	a) What are tyrosine Kinase inhibitors?b) Their clinical application in any one cancer.	5+5
9.	What is thermoluminiscence? What are its clinical and lab applications?	3+7
10.	a) Principles of Palliative Care.b) Euthanasia: Legal aspects in India.	6+4
