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NATIONAL BOARD OF EXAMINATIONS

RADIOTHERAPY

PAPER - I

RTH/J/14/41/I

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.

•	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.	Draw labeled diagrams of oral cavity and describe pattern of lymphatic drainage of anterior 2/3 rd tongue cancer.	4+6
2.	Mention pathological classification of ovarian malignancies. Describe salient features of epithelial cancers of ovary.	5+5
3.	What are different phases of clinical trials described? Discuss one randomized clinical trial for head and neck cancer which has made clinical impact.	4+6
4.	Explain pros & cons of vaccination against carcinoma cervix. Discuss the clinical trial recently conducted worldwide and evidence available.	3+7
5.	Draw labeled diagram of conventional radiotherapy simulator and discuss functions of conventional radiotherapy simulator. Describe the various features available with modern CT-Simulator.	+3)+4
6	Describe maximal permissible dose limits of radiation described	5+5

- 6. Describe maximal permissible dose limits of radiation described by Indian regulatory body. How will you manage a person exposed to 3Gy whole body radiation in Telecobalt area?
- 7. What parameters are checked as daily calibration of a dual energy accelerator with MLC? Discuss the characteristics and use of 12 MeV electron beam.
- Enumerate beam modifying devices used for radiotherapy machines. Describe in detail types of wedges available in practice.
- 9. Describe briefly various dosage systems of interstitial 5+5 brachytherapy. Mention the GEC-ESTRO recommendations for intracavitary irradiation for carcinoma cervix.
- 10. How will you plan radiotherapy for intact left breast? Discuss hypofractionation schedule used for carcinoma breast.

+5

4+6