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# **RADIOTHERAPY**

PAPER - II

RTH/D/17/41/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.

# Write short notes on:

1.	In breast cancer radiotherapy, write notes on: <ul> <li>a) Present status of irradiation of axilla</li> <li>b) Partial versus whole breast irradiation</li> <li>c) Hypofractionated versus conventional irradiation</li> <li>d) Prone versus supine patient position</li> <li>e) Electrons versus photons</li> </ul>	2x5
2.	Radiotherapy in carcinoma cervix:  a) Elective para-aortic irradiation of lymph nodes: role, dose, portals b) Brachytherapy versus IMRT boost: Evidence c) EBRT portals of pelvic irradiation	4+3+3
3.	<ul><li>a) Hemibody irradiation</li><li>b) Intra-operative radiotherapy</li><li>c) Photodynamic therapy</li></ul>	3+4+3
4.	Describe the radiotherapy volume & portals for irradiation of:  a) Carcinoma nasopharynx b) Unilateral maxilla with orbital margin destruction c) Both maxilla with nasal cavity involvement	4+3+3
5.	What are the advantages & disadvantages of:  a) Conventional Radiotherapy b) 3-D CRT c) IMRT d) IGRT e) SRT	2x5



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6.	<ul> <li>a) Prophylactic cranial irradiation in leukemia</li> <li>b) Prophylactic cranial irradiation in small cell lung cancer</li> <li>c) Oophorectomy in premenopausal breast cancer</li> </ul>	3+3+4
7.	Discuss the effects of radiation on :  a) CNS b) Kidneys c) Heart	4+3+3
8.	<ul><li>a) Forward planning in radiotherapy</li><li>b) Inverse planning in radiotherapy</li></ul>	5+5
9.	Discuss recent advances in organ preservation with special reference to:  a) Head & neck cancers b) Sarcoma of extremity	5+5
10.	a) Mention the common brain tumours in:	(2+2)+(3+3)