

**RADIOTHERAPY**

PAPER – III

RTH/D/15/41/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.

**Write short notes on:**

1.	Indications, technique & results of Radiotherapy in a case of soft tissue sarcoma involving thigh.	3+4+3
2.	a) What are the advantages and indications of electron beam therapy? b) How would you treat a 2x2cm basal cell carcinoma of face with Electrons?	2+2 6
3.	Treatment of stage III rectal carcinoma in a 55 year old male.	10
4.	Consequences of radiation on lung and how would you manage them.	5+5
5.	Select any of the five cancer chemotherapeutic agents and describe how will you manage the side effects when these drugs are used as chemosensitizing agents.	10
6.	Molecular & genetic pathology involved in tumorigenesis of any one of the tumours in human body.	10
7.	Select any one disease of reticulo endothelial system & describe the role of radiotherapy as an adjunct to other modes of therapy.	10
8.	a) Enumerate non malignant conditions where radiation therapy is used. b) Prescribe the dose required to treat a meningioma and a keloid.	6 2+2
9.	Circumstances in Indian scenario that compel the curable cancers to become incurable.	10
10.	What do you understand from cell heterogeneity in a tumour cell population? How does it manifest in your clinical practice. What steps are required for its management?	3+3+4

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