

RADIOTHERAPY

PAPER – III

RTH/J/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.	a) Diagnostic work up and staging system for multiple myeloma. b) Management of a clinical solitary lesion involving the sphenoid bone, labeled as plasmacytoma.	(3+3)+4
2.	a) General principles of cancer pain management. b) Management & interventions for: i. Bone pain syndrome ii. Nerve pain syndrome	3+(4+3)
3.	Diagnostic evaluation, staging and the role of multimodality therapy of osteosarcoma of the femur.	2+2+6
4.	Total skin electron therapy with regard to indications, radiotherapeutic technique and complications.	2+6+2
5.	Compare the role of preoperative versus postoperative chemoradiotherapy in locally advanced carcinoma rectum with regard to rationale, advantages & disadvantages, and evidence from important trials.	3+3+4
6.	a) Mention the various predictive and prognostic molecular biomarkers for non small cell carcinoma. b) Role of targeted therapies in the management of locally advanced and metastatic non small cell carcinoma.	5+5
7.	Role of chemotherapy in the management of carcinoma anal canal with regard to indications, chemotherapeutic agents, mechanism of action, side effects and evidence from important trials.	10
		P.T.O.

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8.	a) Radiation induced lung injury with regards to clinical features, investigations and management. b) Normal tissue dose-volume constraints for conventionally fractionated radiotherapy.	(2+2+3)+3
9.	Indications, dose schedule, mechanism of action, side effects and clinical results of pertuzumab.	2+2+2+2+2
10.	a) Rationale and basis of chemoradiotherapy in Head & Neck cancers with regard to advantages & disadvantages. b) Principles of nutrition management and supportive care post chemoradiotherapy.	5+5
