RADIATION ONCOLOGY

PAPER-III

Time: 3 hours Max. Marks:100 RTH/D/20/41/III

Important Instructions:

- You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.
- Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.
- No additional supplementary answer sheet booklet will be provided.
- 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) Chemotherapy in the management of testicular tumor.b) Describe in detail the management appropriate to a 23-year male with pulmonary metastasis arising from a malignant testicular tumour.	4+6
2.	Role of intraperitoneal chemotherapy, indications, methods of administration and the drugs used with appropriate relative concentrations when compared to systemic administration.	2+2+3+3
3.	a) Radiation reactions in a patient receiving radiotherapy for head and neck cancer.b) Nutritional management in a head and neck cancer patient.	5+5
4.	Classify targeted drugs. Describe the pharmacology and clinical applications of one such drug.	5+5
5.	Name the HPV associated malignancies. Mention the characteristics of HPV positive head and neck cancer. Briefly discuss the implications in management of HPV positive patient of head and neck malignancy.	2+3+5
6.	a) Name anti-angiogenic agents, their mechanism of action and toxicity.b) Describe their clinical usefulness in colon cancer.	5+5
7.	Treatment algorithm of a case of metastatic renal cell carcinoma.	10
8.	a) Radiation recall phenomenon.b) Febrile neutropenia.	4+6
9.	Describe the molecular subtypes of breast cancer. Write a note on the hormone therapy in breast cancer.	5+5
10.	Discuss the various diagnostic criteria in multiple myeloma. How do you stage and prognosticate?	5+5
