

RADIOTHERAPY

PAPER-II

Time: 3 hours
Max. Marks: 100

RTH/D/19/41/II

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) What are small round cell tumours? 2+3+5
b) Enumerate the investigations to differentiate and make a final diagnosis for this entity.
c) Describe with regard to the presentation, diagnosis, management and prognosis of small cell carcinoma of the lung.
2. a) Enumerate the risk factors for Breast cancer. 4+3+3
b) Describe the workup for Carcinoma Breast Stage T1 and T2.
c) Write a note on the matching of the Tangential and Supraclavicular field when irradiating the breast.
3. Discuss the management of a case of T2 N0 Squamous Cell Carcinoma of the lateral border of Anterior 2/3rd tongue with respect to the: 4+6
a) Work up.
b) Treatment.
4. With regard to urinary bladder cancer, discuss: 4+6
a) Aetiology and staging of Carcinoma Bladder.
b) Treatment recommendations for both Non muscle invasive and muscle invasive bladder cancers.
5. In Brachytherapy of the cancer cervix, discuss: 3+2+5
a) HR CTV and IR CTV.
b) Lymphatic trapezoid.
c) What is Image Guided Brachytherapy?
6. a) What are the causes of unilateral proptosis? 3+7
b) Discuss the management of a case of Orbital Lymphoma.
7. Discuss Penile carcinoma with respect to: 3+2+5
a) Aetiological factors.
b) Staging of the disease.
c) Stage wise management.

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8. Discuss the role of Radiation in the treatment of benign diseases. 10
9. With regard to cardiac toxicity related to breast cancer radiotherapy, discuss the: 2+3+5
- a) Aetiopathogenesis
 - b) Critical dose limits and volumes.
 - c) Techniques of cardiac sparing radiotherapy in breast cancer treatment.
10. a) What is meant by APBI? 2+2+6
- b) What is the rationale for APBI?
 - c) What are the pros and cons of the various techniques of APBI?
