

FINAL EXAM  
JUNE 2014

NATIONAL BOARD OF EXAMINATIONS

**RADIOTHERAPY****PAPER - II**

RTH/J/14/41/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.

1. Mention the staging classification of tumors of urinary bladder. Describe role and method used for BCG instillation for carcinoma bladder. 3+(4+3)
2. Discuss the clinical features and staging of carcinoma penis? How will you treat a patient having 2cm lesion at the junction of glans and prepuce? (2+3)+5
3. What is sentinel node biopsy and how it is done for carcinoma breast? How will you manage a 50 year lady having 3x3cm lesion in UOQ left breast involving skin and left supraclavicular node? (1+3)+6
4. Discuss indications, schedule, duration of treatment and outcome of combined chemoradiotherapy for small cell carcinoma of upper lobe of right lung. 2+3+3+2
5. Mention the common brain tumors in pediatric age group. Discuss radiotherapy technique for medulloblastoma. 3+7
6. Discuss lymphatic drainage and TNM staging of carcinoma pyriform fossa. Mention the radiation portals with dose schedule for carcinoma pyriform fossa. (3+3)+4
7. Discuss the histological classification and markers used for diagnosis of Non-Hodgkin's lymphoma. 6+4
8. How will you investigate a patient having 4cm lesion in segment IV of liver? What treatment options are available for him? Explain one of them in detail. 4+2+4
9. What malignancies are associated with immunodeficiency syndrome? How will you manage a HIV+ve patient having carcinoma cervix Ib1. 3+7
10. What should be the activities of a palliative care unit? Discuss the concept of hospice care versus home care. 5+5