

**RADIOTHERAPY**

**PAPER – II**

RTH/APRIL/16/41/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.

Write short notes on:

1. a) Merits and demerits of concurrent chemo-radiation. 5+5  
b) Enumerate the sites where concurrent CT-RT is the standard of care.
2. a) What are the goals of palliation in a cancer patient? 4+6  
b) What aspects will you take care of in a terminally ill cancer patient admitted in your ward for the past one week?
3. a) What is APBI (Accelerated Partial Breast Irradiation)? 2+3+5  
b) What are its indications?  
c) What are the methods that have been used in literature to deliver APBI?
4. How will you treat a case of carcinoma nasopharynx T<sub>3</sub>N<sub>1</sub>M<sub>0</sub> (WHO type III) in a 45 year old male with history of diabetes for the last 4 years with good performance score (KPS – 80). 10
5. a) Define the levels of lymph nodes in the neck. 4+6  
b) What are the guidelines for delineation of LN bearing regions (i.e high risk and low risk CTV) in the neck?
6. How will you treat a pregnant woman diagnosed with stage IB cancer cervix during her pregnancy? 10
7. Indications, dose schedules and results of targeted therapy in renal cell carcinoma. 3+3+4
8. a) Rationale of using hormone therapy in breast cancers. 2+2+6  
b) What are its indications?  
c) Role of Anastrozole in post menopausal breast cancers.
9. How would you treat stage I seminoma of testes? Describe the radiation portals and dose schedule? 2+(2+6)
10. a) Enumerate various skull base tumors. 5+5  
b) How will you treat skull base chordoma?

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