

RADIO THERAPY**PAPER-II**Time: 3 hours
Max. Marks:100

RTH/J/20/41/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) Molecular profiling of gliomas. 4+6
b) Management of glioblastoma multiforme.
2. a) Principles of cytotoxic chemotherapy. 6+4
b) Norton Simon hypothesis.
3. a) Mechanism of action of Nivolumab. 5+5
b) Role of immunotherapy in melanoma.
4. a) What do you understand with terms Oligoprogression and 4+6
Oligorecurrence?
b) Role of local therapies in oligo metastatic cancer.
5. a) What do you understand by metastatic epidural spinal cord 4+6
compression (MESCC)?
b) Evidence based treatment of MESCC.
6. Enumerate the conditions where radiation therapy is used for benign 3+2+5
tumors. What are the likely long term complications? Describe in detail the
radiotherapy for Graves ophthalmopathy.
7. a) Pathological classification & staging of osteogenic sarcoma. 5+5
b) Extracorporeal radiation therapy in osteogenic sarcoma.
8. a) Radiotherapy in plasmacytoma. 4+3+3
b) Molecular profiling in soft tissue sarcoma.
c) Rhabdomyosarcoma: Risk grouping.
9. a) Cancer related fatigue. 3+4+3
b) Anti-emesis management in cancer.
c) Morphine.
10. a) Bevacizumab in colon cancer. 5+5
b) Drugs and dosage used in various types of Folfox regimens with
results.
