RADIO THERAPY PAPER-II

Time: 3 hours RTH/J/20/41/II

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