

RADIOTHERAPY

PAPER-III

Time: 3 hours

RTH/J/19/41/III

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:

- a) GIST 5+5
 - b) Paraneoplastic syndromes
- a) Briefly describe the changes in the treatment philosophy of rectal cancers. 5+5
 - b) Targeted therapy in stage IV cancer colon.
- a) Chordoma 5+5
 - b) Craniopharyngioma
- a) Management of GBM in patient more than 65 years of age. 4+3+3
 - b) Correlation between MGMT methylation and use of temozolamide.
 - c) Recursive partitioning analysis in management of malignant brain tumours.
- a) Describe different types of malignant melanoma. 3+2+5
 - b) In-transit metastasis.
 - c) Systemic therapy in stage IV melanoma.
- a) Clinical, radiological and histological features of Ewing's sarcoma. 6+4
 - b) Schematic flow chart for management of Ewing's sarcoma.
- a) CSI – Craniospinal irradiation techniques & indications. 5+5
 - b) PCI – Prophylactic cranial irradiation techniques & indications.
- a) Outline the management strategy of febrile neutropenia. 5+5
 - b) Etiopathology and management of osteoradionecrosis.
- a) Imatinib 4+3+3
 - b) Denosumab
 - c) Sorafenib
- a) Radio-immunotherapy. 5+5
 - b) Boron-neutron capture therapy.
