

RADIOTHERAPY

PAPER-III

RTH/J/19/41/III

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) GIST 5+5
b) Paraneoplastic syndromes
2. a) Briefly describe the changes in the treatment philosophy of rectal cancers. 5+5
b) Targeted therapy in stage IV cancer colon.
3. a) Chordoma 5+5
b) Craniopharyngioma
4. 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.
5. a) Describe different types of malignant melanoma. 3+2+5
b) In-transit metastasis.
c) Systemic therapy in stage IV melanoma.
6. a) Clinical, radiological and histological features of Ewing's sarcoma. 6+4
b) Schematic flow chart for management of Ewing's sarcoma.
7. a) CSI – Craniospinal irradiation techniques & indications. 5+5
b) PCI – Prophylactic cranial irradiation techniques & indications.
8. a) Outline the management strategy of febrile neutropenia. 5+5
b) Etiopathology and management of osteoradionecrosis.
9. a) Imatinib 4+3+3
b) Denosumab
c) Sorafenib
10. a) Radio-immunotherapy. 5+5
b) Boron-neutron capture therapy.
