

RADIOTHERAPY

PAPER – II

RTH/D/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) Classify salivary gland tumors. 3+2+5
b) List the indications of radiotherapy in carcinoma parotid gland.
c) Radiotherapy technique, dose and side effects for carcinoma of parotid gland.
2. a) Human Papilloma Virus (HPV) and head & neck carcinoma with recent evidence. 4+4+2
b) List indications of post operative radiotherapy and post operative chemoradiotherapy in head & neck cancer.
c) Role of brachytherapy in cancer tongue T₂N₀M₀.
3. A 45 year old lady has a T₃N₀M₀ muscle invasive transitional cell carcinoma of the urinary bladder. What is her treatment options with regard to: 4+6
a) Surgery.
b) Bladder Preservation Protocol.
4. a) What is Involved Field Radiation Therapy (IFRT), Involved Nodal Radiation Therapy (INRT) and Involved Site Radiation Therapy (ISRT)? 6+4
b) ISRT technique for bulky mediastinal adenopathy and its advantages
5. a) List the risk factors of carcinoma vulva. 2+2+4+2
b) What are the indications of post-operative radiation in carcinoma vulva?
c) Techniques of radiotherapy in carcinoma vulva.
d) Radiotherapy dose and dose limiting structures in carcinoma vulva.
6. a) Staging of soft tissue sarcoma of extremity. 3+4+3
b) Pre-operative versus post-operative radiotherapy for soft tissue sarcoma.
c) Role of brachytherapy in soft tissue sarcoma of extremity.

P.T.O.

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7. With regard to Wilm's tumor, write the: 4+6
a) Staging
b) Treatment algorithm based on risk stratification.
8. a) Treatment options of single metastasis in the brain with controlled 5+3+2
extra-cranial disease.
b) Evidence for focal radiotherapy Vs whole brain radiotherapy.
c) What is the use of Recursive Partitioning Analysis (RPA) classification?
9. A 32 year old lady presented with decreased urinary output, bilateral 2+3+2+3
pedal oedema and severe backache. She also gives history of
bleeding per vaginum for 3 months. On evaluation, she was found to
have creatinine of 5.4mg/dl and Potassium of 7.0mEq/ml
a) What other blood investigations will you do for emergency
management?
b) How will you correct her hyperkalemia?
c) What is the possible diagnosis?
d) Outline the treatment algorithm for such a patient.
10. a) List the indications of Hemibody Irradiation (HBI). 2+2+4+2
b) What are the types of HBI?
c) Technique and doses involved in HBI.
d) Pre & post procedural precautions to be taken for delivery of HBI.
