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FINAL EXAM DECEMBER 2016 NATIONAL BOARD OF EXAMINATIONS

<u>RADIOTHERAPY</u>

PAPER - II

RTH/D/16/41/II

P.T.O.

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.b) List the indications of radiotherapy in carcinoma parotid gland.c) Radiotherapy technique, dose and side effects for carcinoma of parotid gland.	3+2+5
2.	 a) Human Papilloma Virus (HPV) and head & neck carcinoma with recent evidence. b) List indications of post operative radiotherapy and post operative chemoradiotherapy in head & neck cancer. c) Role of brachytherapy in cancer tongue T₂N₀M₀. 	4+4+2
3.	A 45 year old lady has a $T_3N_0M_0$ muscle invasive transitional cell carcinoma of the urinary bladder. What is her treatment options with regard to: a) Surgery. b) Bladder Preservation Protocol.	4+6
4.	 a) What is Involved Field Radiation Therapy (IFRT), Involved Nodal Radiation Therapy (INRT) and Involved Site Radiation Therapy (ISRT)? b) ISRT technique for bulky mediastinal adenopathy and its advantages 	6+4
5.	 a) List the risk factors of carcinoma vulva. 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. 	2+2+4+2
6.	 a) Staging of soft tissue sarcoma of extremity. b) Pre-operative versus post-operative radiotherapy for soft tissue sarcoma. 	3+4+3

c) Role of brachytherapy in soft tissue sarcoma of extremity.



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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 extra-cranial disease.

5+3+2

- 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 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

2+3+2+3

- 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.

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