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RADIOTHERAPY

PAPER-I

Time: 3 hours RTH/J/19/41/I 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) Anatomy and lymphatic drainage of testes. Discuss briefly on the imaging modalities to evaluate the lymphatics in testicular cancer. b) Role of serum markers in testicular malignancy and its impact on management. 2. a) NCRP - goals and advantages of a Registry program. 6+4 b) HBCR and PBCR. 3. a) Oncotype Dx. 4+6 b) Anti-Her2 agents in management of breast cancers. 4. a) Anatomy & lymphatic drainage of tongue. 6+4 b) Describe the differences in the behavior and management policies of oral and oropharyngeal primaries. 5. a) Describe the different groups and levels of axillary lymph nodes. b) Enumerate and briefly describe different types of mastectomy. c) Briefly elaborate on indications for Radiation therapy after mastectomy. 6. a) Describe the steps and criteria of Radiotherapy plan evaluation. 6+4 b) ICRU 50 and ICRU-62. 7. a) Tomotherapy b) Advantages & disadvantages of KV-CBCT Vs MV-CBCT. c) Recent advances in image guidance for Radiotherapy. 8. a) Characteristics of Electromagnetic radiation. 6+4 b) Characteristics of Electron beam. 9. a) What are Kaplan Meier plot & Forest plot? 4+4+2 b) What are p value & confidence interval? c) Hazard ratio. 10. a) Sandwich therapy. 3+3+4 b) Intraluminal therapy. c) LDR versus HDR Brachytherapy.			
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	10.	b) Intraluminal therapy.	3+3+4
