

Rajiv Gandhi University of Health Sciences, Karnataka

Post-Graduate Fellowship Examination – 17-Feb-2025

Time: Three Hours**Max. Marks: 100 Marks**

Advance Technology in Radiation Oncology - PAPER – I

QP Code: 4101

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

Answer All The Questions**10 X 10 = 100 Marks**

1. Adaptive Radiotherapy.
2. Discuss about the different types of Dose Calculation Algorithms.
3. Triple "F" Linear Accelerator.
4. EPID and its uses.
5. Expand IMPT and briefly discuss about it.
6. Radiotherapy doses and schedules for Hodgkins Lymphoma.
7. Discuss the role of proton therapy in today's context. Enumerate the points considered for plan evaluation in approval of a proton generated plan.
8. Advantages and limitations of treatment process between cyber-knife, Gamma-knife, X-knife.
9. Write about the procedure, regulatory clearance and approvals required establishing radiotherapy facility in a hospital.
10. What are the various image verification options for modern radiotherapy practice? How is the MR Linac superior to a traditional Linac?

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