

## Rajiv Gandhi University of Health Sciences

### Post-Graduate Fellowship Examination – FEB-2019

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

#### **Advance Technology in Radiation Oncology - PAPER – II**

##### **QP Code: F018**

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

**LONG ESSAY (These questions carry 20 marks each)****2 X 20 = 40 Marks**

1. Describe pituitary adenoma and the SBRT planning in pituitary adenoma.
2. Describe the parts of LINAC based Radiosurgery machine with neat diagram and the Quality assurance of the machine.

**SHORT ESSAY (These questions carry 10 marks each)****6 X 10 = 60 Marks**

3. Describe the role of SRS in vestibular schwannoma with evidence.
4. Enumerate the immobilization device for SRS and SBRT, each of its advantage and disadvantage in RT planning.
5. Describe the radiobiology behind hypofractionation for carcinoma prostate.
6. Management of low risk carcinoma prostate and the role of SBRT
7. How respiratory motion management done in Linac based SBRT and explain in detail SBRT planning in carcinoma lung?
8. Role of Brachytherapy in soft tissue sarcoma and the planning of preoperative Brachytherapy in sarcoma

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