

Rajiv Gandhi University of Health Sciences Post-Graduate Fellowship Examination - JULY-2019

Time: Three Hours Max. Marks: 100 Marks

Advance Technology in Radiation Oncology - PAPER - II OP 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

- Define stereotactic radiosurgery and stereotactic radiotherapy. What are the radiobiologic considerations in relation to above? Describe in brief radio-surgical techniques employed in the treatment of tumor.
- Role of SRS in AV malformation and the RT planning in detail

SHORT ESSAY (These questions carry 10 marks each)

6 X 10 = 60 Marks

- Various treatment delivery unit for SRS and SBRT and explain in detail planning of SRS in Novalis.
- Describe the difference between gamma knife and cyberknife radiosurgery in detail.
- Indication for re-irradiation with Brachytherapy and precaution to be taken while planning Brachytherapy
- Molecular classification of Glioma and role of SBRT in Glioma
- Role of targeted therapy in recurrent high grade Glioma and give evidence for benefit of targeted therapy with SBRT in high grade Glioma.
- Explain the Brachytherapy procedure for base of tongue and describe the various methods of treatment planning in Brachytherapy.

