

Rajiv Gandhi University of Health Sciences
Second Year M.Sc [Radiation Physics] Degree Examination – SEP-2019

[Time: 3 Hours]

[Max. Marks: 100]

ADVANCED RADIATION PHYSICS

Q.P. CODE: 9805

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

LONG ESSAY**2 X 20 = 40 Marks**

1. Explain various steps of Brachytherapy source calibration.
2. a) What are the salient features of ICRU 38?
b) Explain various implant principles used in Brachytherapy.

SHORT ESSAY**6 X 10 = 60 Marks**

3. Explain the construction and working of EPID.
4. Write a note on
 - a) 2D array detector
 - b) TLD
5. What are the QA tests for IMRT? Explain them.
6. Write a note on three dimensional compensation in radiotherapy.
7. Write a note on IGRT.
8. Write a note on following field shaping devices used in radiotherapy
 - a)MLC
 - b) Wedge

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