

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Imaging Technology Degree Examination – SEP-2019

Time: Three Hours

Max. Marks: 40 Marks

Radiation Physics and Medical Physics

Q.P. Code: 1354

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

(Note: Both QP Codes 1353 and 1354 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

1. Describe an rotating anode X-ray tube with a neat labelled diagram. Give the differences in design features with respect to stationary anode x-ray tube.
2. What is the aim of radiation protection? Explain in detail stochastic and Non-stochastic effects of radiation.

SHORT ESSAYS (Answer any Three)

3 x 5 = 15 Marks

3. Explain the construction of Thermoluminescent dosimeter.
4. Photo electric effect
5. Write a short note on rectification.
6. Write a short note on anode heel effect.

SHORT ANSWERS (Answer any Five)

5 x 3 = 15 Marks

7. Remote control table
8. Inherent filters
9. Fuses
10. Half Value Layer
11. Use of grids
12. Inverse Square Law
