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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Imaging Technology Degree Examination - AUG/SEP 2016

Time: 3 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 in detail about the components in X-ray generator with neat diagram.
- 2. Explain the theory of Gas-Filled Detectors.

SHORT ESSAYS (Answer any Three)

3 x 5 = 15 Marks

- Radiolysis of water
- 4. Principle of radiation protection and exposure control
- 5. X-ray tube housing
- Scintillation detector

SHORT ANSWERS (Answer any Five)

5 x 3 = 15 Marks

- Characteristic X-ray spectrum
- 8. Anodes
- 9. Beam Centering Devices
- 10. Annual Dose Equivalents
- 11. Chromosome Aberrations
- 12. Roentgen and Rad

