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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Imaging Technology Degree Examination - SEP-2017

Time: 3 Hours Max. Marks: 40 Marks

Physics of Radiology Q.P. Code: 1353

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

- Explain in detail the type's transformers and write a note on construction and working of HT transformers with a neat diagram.
- Explain the various modes of x-ray productions.

SHORT ESSAYS (Answer any Three)

3 x 5 = 15 Marks

- 3. Principles of semiconductors
- 4. Describe dose equivalent and effective dose equivalent.
- X-ray emission spectrum
- Define diode and explain half wave rectification.

SHORT ANSWERS (Answer any Five)

5 x 3 = 15 Marks

- 7. Define karma and fluence rate.
- 8. Anode heel effect
- Eddy current
- 10. Define mass attenuation coefficient.
- 11. Define Decay and Half-life with the units.
- Mass number



