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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

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

- a) Write in detail the principle of semiconductor.
 - b) How a p-n junction diodes works and explain about its construction.
- Briefly describe the conductivity of electricity through gases.

SHORT ESSAYS (Answer any Three)

3 x 5 = 15 Marks

- Describe the uses of radioactive nuclides in medicine.
- Define Capacitance and capacitor.
- 5. Describe Ionization and Excitation.
- Describe the copper loss and iron losses in an AC transformer.

SHORT ANSWERS (Answer any Five)

5 x 3 = 15 Marks

- 7. Define Inverse square law with a neat diagram.
- Define Kerma and Exposure.
- 9. Describe the Electromagnetic spectrum.
- Define the electric potential and potential difference.
- 11. What is Radioactive disintegration law?
- 12. What is thermionic emission and describe 'electron cloud'?

MANFILE

