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# Rajiv Gandhi University of Health Sciences, Karnataka

III year B.Sc. Imaging Technology Examination - MARCH 2018

Time: Three Hours

Max. Marks: 60 Marks

## DIAGNOSTIC IMAGING TECHNIQUE (RS - II) Q.P. CODE: 2911

Your answers should be specific to the questions asked Draw neat, labeled diagrams wherever necessary

#### LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- Write a note on Ultrasonographic imaging modes, physics, transducers, artefacts, contrast and safety considerations.
- CT imaging of lung patient positioning, indications, CECT and pulmonary angiography and image reconstruction techniques.
- Enumerate the principle of MRI.

### SHORT ESSAYS (Answer any Five)

5 x 5 = 25 Marks

- 4. Multiple detector CT
- 5. Radioactivity
- 6. Construction of tc 99m generator
- 7. Side lobe and grating lobe artifacts
- Paramagnetic substances
- 9. Detector pitch and collimator pitch
- 10. Types of magnets used in MRI

#### SHORT ANSWERS (Answer any Five)

5 x 3 = 15 Marks

- Cold kit
- Radiofrequency coil and gradient coil
- 13. Contrast to noise ratio and signal to noise ratio
- Gyromagnetic ratio
- Ct contrast agents
- 16. Pixel and Voxel
- 17. Window width and window leve

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