

## Rajiv Gandhi University of Health Sciences, Karnataka

III year B.Sc. Imaging Technology Examination – AUG/SEP 2016

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**

1. Describe the various pulse sequences used in MRI.
2. What are radiopharmaceuticals? Describe in detail their preparation and handling precautions.
3. Discuss in detail the ultrasound instrumentation and display modes.

#### SHORT ESSAYS (Answer any Five)

**5 x 5 = 25 Marks**

4. Pixel and Voxel
5. Single Photon Emission Computed Tomography (SPECT)
6. MRI Artifacts
7. Position Emission Tomography
8. Transducer
9. Gradient coils
10. MR Angiography

#### SHORT ANSWERS (Answer any Five)

**5 x 3 = 15 Marks**

11. Larmor frequency
12. Radionuclides
13. Rectilinear scanner
14. Multihole collimator
15. Ultrasound contrast media
16. CT Console
17. Radiofrequency receiver (MRI)

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