

Rajiv Gandhi University of Health Sciences, Karnataka

III year B.Sc. Imaging Technology Examination – OCT-2019

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 in detail the different magnets and coils in MRI. Discuss the hazards related to MRI hardware and safety procedure to be followed to prevent accidents.
2. What is the maximum permissible dose and describe the methods of radiation protection to the patient and to the staff in Diagnostic radiology department.
3. Write a note on CT Dosimetry parameters, factors influencing patient dose and steps to minimize patient's dose.

SHORT ESSAYS (Answer any Five)

5 x 5 = 25 Marks

4. MR Spectroscopy
5. CT guided Biopsies
6. PET
7. MR Angiography
8. MR artefacts
9. Interventional technique in Ultrasound
10. Quality check and maintenance of CT

SHORT ANSWERS (Answer any Five)

5 x 3 = 15 Marks

11. Ultrasonography contrast agents
12. Emergency drugs in radiology
13. CT technique of KUB examination
14. Gradient Echo sequence
15. Ring artifact in CT
16. Inversion recovery sequence
17. Contrast to noise ratio
