

Rajiv Gandhi University of Health Sciences, Karnataka
Third Year B.Sc. Medical Imaging Technology Degree Examination – 24-Nov-2023

Time: Three Hours

Max. Marks: 100 Marks

Diagnostic Imaging Techniques and Modalities (RS-4)

Q.P. CODE: 3293

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

LONG ESSAYS (Second Question Choice)

2 x 10 = 20 Marks

1. Describe the physical properties of computed tomography
2. Describe any two sequences used in MRI

OR

Write briefly about isotopes, radio nucleolus and half life

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Image display
4. Gamma camera
5. Surface coils (MRI)

OR

Radioimmuno assay

6. Colour doppler
7. Tracer techniques in nuclear medicine
8. CT artifact
9. PET
10. Head coils

OR

Pixel and Voxel

11. Preparation of patients in MRI scan
12. Pitch

SHORT ANSWER

10 x 3 = 30 Marks

13. Resistive index
14. Signal to noise ratio
15. Screening of MRI test
16. Accoustic coupling media
17. PNDT Act
18. Ultra sound guided biopsies
19. Chemical shift artifact
20. Window level and width
21. Triple phase CT
22. Radioactivity
