

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Medical Imaging Technology Degree Examination – 08-May-2025

Time: Three Hours

Max. Marks: 100 Marks

IMAGING PHYSICS AND DARK ROOM TECHNIQUES (RS-4)

Q.P. CODE: 3291

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. Explain briefly radiographic image quality in terms of density, noise, contrast, sharpness and resolution
2. Write in detail about automatic processor
OR
Write in detail about the silver recovery

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Magnification radiography
4. Film artefacts and types
5. Types of intensifying screen and explain the working differences between them
OR
Explain halation artefacts and the remedy
6. Explain the temperatures maintenance in the automatic processor
7. Explain safe light test
8. Discuss the factors affecting the radiographic image quality
9. Care and maintenance of x-ray cassette
10. Factors affecting the image quality
OR
Draw and explain the types of film dryers
11. What are the COSHH regulations?
12. Explain the functions of fixer and constituents of fixer

SHORT ANSWER

10 x 3 = 30 Marks

13. Explain FID
14. Non curl backing
15. Importance of pH in manual processing
16. Differential attenuation
17. White light in darkroom
18. Ventilation of darkroom
19. Fluorescence
20. Scatter radiation
21. Chemical film artefacts
22. Types of fog
