

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Sc. Medical Imaging Technology Degree Examination – 28-Nov-2023

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 about darkroom construction for a tertiary care centre
2. Write in detail about film, construction care and maintenance

OR

Write in detail about automatic processors

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Explain the latent image formation
4. Intensifying screen and unharness
5. Draw a neat diagram of characteristic curve and explain the latitude

OR

Explain the types of entry for the darkroom

6. Explain the constituents in the fixer solution
7. Explain hatches and hangers
8. Explain the types of cassette
9. Discuss the type of film used for mammography
10. Differentiate in between screen and non-screen films

OR

Darkroom illuminations

11. What are the double emulsion films and explain the advantages and drawbacks?
12. Explain film artefacts

SHORT ANSWER

10 x 3 = 30 Marks

13. Explain fog
14. Explain turn over system
15. Film storage in darkroom
16. Unsharpness
17. Care and maintenance of the cassette
18. Silver recovery from the scrap films
19. Film noise
20. SNR
21. Image contrast
22. Base density of a film
