Rajiv Gandhi University of Health Sciences, Karnataka II Year B.Sc. Medical Imaging Technology Degree Examination - 19 May 2023

Time: Three Hours

Max. Marks: 100 Marks

Allied

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)

- Explain the steps of manual processing and make a brief note on constituents if developer and fixer
- Draw the characteristic curve, write in detail about the regions of characteristic curve OR

Write in detail about planning and construction of darkroom

SHORT ESSAYS (Question No 5 & 10 choice)

- Secondary radiation grids
- 4. Latent image formation
- Film propagation automatic processor OR Exposure factors
- 6. Crossover effects
- 7. Construction of the x-ray cassette
- Explain duplitized and single emulsion films
- 9. Factors affects development of the film
- 10. Developer solution replenishment

OR Explain briefly CRT films

- 11. Types of fog
- 12. Film entry detection in automatic processor

SHORT ANSWER

- 13. Methods of silver recovery
- 14. Dry bench and wet bench
- 15. Luminescence
- 16. Standby mode of automatic processor
- 17. Safe light filter
- 18. Single emulsion film
- 19. Importance of Ph in fixer
- 20. Fixing agent and function
- 21. Darkroom entrance types
- 22. Acidity and alkalinity

10 x 3 = 30 Marks

2 x 10 = 20 Marks

10 x 5 = 50 Marks