

VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM
(Deemed to be University)

DIPLOMA IN RADIOLOGY AND IMAGING TECHNOLOGY
EXAMINATION – February 2020
First Year

X-RAY FILM/ IMAGE PROCESSING TECHNIQUES

Time: Three hours

Maximum: 75 marks

I. Write an essay on any **ONE** of the following: (1 x 20 = 20)

1. Explain the working principle of Computerized radiography.
2. Describe in detail the construction and working of an automatic film processor.

II. Write short notes on any **TWO** of the following: (2 x 10 = 20)

3. Screen Unsharpness.
4. Developer and Fixer contents.
5. Mammogram cassette.
6. Chemical recirculation in automatic film processing.

III. Write short answers on any **SEVEN** of the following: (7 x 5 = 35)

7. Electrostatic fog.
8. Phosphor layer in intensifying screen.
9. Film entry system in automatic processor.
10. Mammogram film.
11. Uses of characteristic curve.
12. Monochromatic film.
13. Developing agents.
14. Double emulsion films.
15. Ideal darkroom entrance types.
16. Image duplication.
