

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM**  
**(Deemed to be University)**  
**DIPLOMA IN RADIOLOGY AND IMAGING TECHNOLOGY**  
**EXAMINATION – March 2019**  
**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 in detail the planning and construction of an ideal darkroom.
2. Explain in detail components of computerized radiography and its working principle.

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

3. Structure of an intensifying screen.
4. Screen Unsharpness.
5. Flat Panel technology in digital radiography.
6. Hangers.

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

7. Advantages of an automatic film processor.
8. Uses of a characteristic curve.
9. Dental film.
10. Contents of a fixer.
11. Rare earth screens.
12. Wet bench.
13. Image magnification.
14. Curved cassettes.
15. Electromagnetic spectrum.
16. Chemical replenishment.

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