

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

**DIPLOMA IN RADIOLOGY AND IMAGING TECHNOLOGY
EXAMINATION – August 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 various steps of film processing by manual technique.
2. Draw the diagram of an intensifying screen. Mention the types of intensifying screen. Intensification factor and uses of intensifying screens.

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

3. Image Resolution.
4. Flat panel technology in DR.
5. Laser camera.
6. Chemical replenishment & recirculation.

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

7. Orthochromatic films.
8. Geometric Unsharpness.
9. Image duplication.
10. Cleaning & care of cassette.
11. Chemical replenishment.
12. Safelight fog.
13. Type of radiographic film
14. Films stains & splashes.
15. Film storage.
16. Developer & Fixer contents.