

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

**DIPLOMA IN RADIOLOGY AND IMAGING TECHNOLOGY
EXAMINATION – September 2021
First Year**

X-RAY MACHINE ACCESSORIES

Time: Three hours

Maximum: 75 marks

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

1. Explain in detail design, construction and working of mammography.
2. Explain in detail the design, uses and case of various X-ray accessories.

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

3. Cathode ray
4. Rotating anode X-ray tube
5. Grid controlled X-ray tube
6. X-ray machine

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

7. Measurement of high voltage
8. Self rectifying current
9. Full wave pulsating voltage circuit.
10. Anode and cathode
11. Triode valves
12. Autotransformers
13. Diodes
14. Lead apron
15. X-ray uses
16. Heat effect.