

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

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

X – RAY MACHINE'S 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, types, working and uses of Oscilloscope.
2. Explain in detail discovery, production and uses of x-ray.

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

3. Mammography.
4. Circuits.
5. Control of Kv circuit.
6. Triode valves.

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

7. Anode and cathode.
8. Thermionic diode.
9. Safety while using x – ray machine.
10. Digital x- ray.
11. MA circuit.
12. Heat effect.
13. X- ray beam quality.
14. Practical aspects of uses of x- rays.
15. Semiconductor.
16. Patient care while exposing x- rays.