

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

**DIPLOMA IN RADIOLOGY AND IMAGING TECHNOLOGY
EXAMINATION – August 2019
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 discovery, production and uses of x-ray.
2. Explain in detail principle and practical aspects of x- ray.

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

3. Control of Kv circuit.
4. Write short notes on mobile X- ray machine.
5. Explain about fluoroscopic procedures
6. Grid controlled X- ray tubes.

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

7. Heat effect.
8. Anode and cathode.
9. Triode valves.
10. Anode angle
11. X- ray beam quality.
12. Biological effect of X- rays.
13. Focal spot.
14. Self rectifying circuit.
15. Grid.
16. Case of X-ray instruments.
