

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

**DIPLOMA IN RADIOLOGY AND IMAGING TECHNOLOGY  
EXAMINATION – March 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. Write working principle of CT machine and generation of CT.
2. Roentgen's x-ray discovery.

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

3. Rotating anode x-ray tube.
4. Full wave pulsating voltage circuit.
5. Safety methods in x-ray usage.
6. Write short notes on ultrasound procedures.

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

7. mA circuit.
8. Patient safety while x- ray procedure.
9. Digital x-ray.
- 10.Filters.
- 11.Focal spot.
- 12.Transformers.
- 13.Diodes.
- 14.Cations & Anions.
- 15.Care of x-ray instruments.
- 16.Radiation dose.

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