

**VINAYAKA MISSIONS RESEARCH FOUNDATION, SALEM**  
(Deemed to be University)

**M.SC.(RADIOLOGY AND IMAGING TECHNOLOGY)**  
**DEGREE EXAMINATION – August 2019**  
**First Year**

**MODERN RADIOLOGICAL AND IMAGING EQUIPMENT**

Time: Three hours

Maximum: 100 marks

Answer **ALL** questions

**I. Write a Long essay on:** **(2 x 20 = 40)**

1. Tomography procedures (CT).
2. Principle of radiation detectors.

**II. Write short notes on:** **(10 x 6 = 60)**

3. Mammography unit.
4. Ultrasound.
5. MRI technique.
6. Image intensifier.
7. Helical CT.
8. Gamma camera.
9. Digital subtraction angiography (DSA).
10. Stereotactic biopsy system.
11. Relaxation of T1 and T2.
12. Modern X-ray tube.

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