

SL.No: M23304

Course Code: 2690101

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

**M.SC.(RADIOLOGY AND IMAGING TECHNOLOGY)
DEGREE EXAMINATION – January 2020
First Year**

RADIOLOGICAL PHYSICS

Time: Three hours

Maximum: 100 marks

Answer **ALL** questions

I. Write an Long essay on :

(3 x 20 = 60)

1. Explain in detail the biological effects of X-ray radiation.
2. Explain characteristic Radiation and Bremsstrahlung Radiation.
3. Write a detailed note on MR safety and RF safety.

II. Write short notes on :

(4 x 10 = 40)

4. Factors affecting spatial resolution
5. Contrast harmonic imaging
6. Spin-lattice and spin-spin relaxation
7. TLD badge
8. RIS and PACS.
