SL.No: M22201 Course Code:2690104

## VINAYAKA MISSIONS RESEARCH FOUNDATION, SALEM

# (Deemed to be University) M.SC.(RADIOLOGY AND IMAGING TECHNOLOGY) DEGREE EXAMINATION – February 2020 First Year

# RADIATION SAFETY AND PROTECTION

Time: Three hours Maximum: 100 marks

### Answer **ALL** questions

#### I. Write a Long essay on:

 $(2 \times 20 = 40)$ 

- 1. AERB recommendations regarding occupational radiation exposure limits and dose limits to public.
- 2. AERB specifications for Digital mammography equipment installation.

#### II. Write short notes on:

 $(10 \times 6 = 60)$ 

- 3. CTDI and DLP.
- 4. Biological effects of Ultrasound.
- 5. GM counter.
- 6. Ionization chamber.
- 7. Radiation protection to pediatric patients in CT and X-ray.
- 8. Radiation safety in Cath lab.
- 9. Write a note on TDS principle nd ALARA.
- 10.PC PNDT guidelines.
- 11.Legal documentation in radiology as per NABH guidelines.
- 12. Pocket dosimeter and radiation survey meter.

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