Sl.No.M22323 Course Code: 3320202

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

## DIPLOMA IN RADIOLOGY AND IMAGING TECHNOLOGY EXAMINATION – February 2020 Second Year

## EQUIPMENTS, BASIC TECHNIQUES OF MODERN IMAGING MODALITIES

Time: Three hours Maximum: 75 marks

I. Write an essay on any **ONE** of the following:

 $(1 \times 20 = 20)$ 

- 1. Describe third and fourth generation CT scanner.
- 2. Explain in detail the various display modes in Ultrasound.
- II. Write short notes on any **TWO** of the following:

 $(2 \times 10 = 20)$ 

- 3. Post processing techniques in CT.
- 4. Factors influencing Signal to Noise ratio in MRI.
- 5. MRI contrast media.
- 6. Digital Radiography principle.
- III. Write short answers on any **SEVEN** of the following:

 $(7 \times 5 = 35)$ 

- 7. CT Window width and window level.
- 8.MDCT principle.
- 9. Mammogram principle.
- 10. Truncation artifact.
- 11.T2 FLAIR sequence in MRI.
- 12.CCD technology in Digital Radiography.
- 13. Ultrasound abdomen.
- 14.CR cassette.
- 15. Ultrasound guided pleural aspiration.
- 16. Mirror image artifact in ultrasound.