

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

**DIPLOMA IN RADIOLOGY AND IMAGING TECHNOLOGY
EXAMINATION – September 2021
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 x 20 = 20)

1. Explain in detail about CT post processing techniques.
2. Explain the working principle of Digital Radiography.

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

3. Explain CT guided mediastinal biopsy
4. Describe MRI prostate protocol.
5. CCD technology in DR.
6. Power Doppler technique.

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

7. HRCT thorax.
8. Types of magnets.
9. Chemical shift artifact.
10. Explain MRI Brain protocol for an epileptic patient.
11. Isotope renal scan.
12. Sonomammogram.
13. Piezoelectric effect and Doppler spectrum.
14. Dual head pressure injector.
15. Patient preparation for MRI Enterography.
16. CT streak artifact.