

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

**DIPLOMA IN RADIOLOGY AND IMAGING TECHNOLOGY
EXAMINATION – August 2019
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 image reconstruction techniques
2. Explain the working principle of Computerized Radiography

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

3. Explain CT guided lung biopsy
4. Describe MRCP protocol
5. Flat panel technology in DR
6. Tissue harmonic imaging

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

7. CT PNS
8. Types of magnets
9. Magnetic Susceptibility artifact
10. Explain MRI Brain protocol for a patient with acute stroke
11. DMSA scan
12. Ultrasound of the thyroid
13. Piezoelectric effect and Doppler spectrum
14. CT pressure injector
15. Patient preparation for CT Enteroclysis
16. CT stairstep artifact