

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

**B.Sc. (RADIOGRAPHY) DEGREE EXAMINATION - February 2020
Third Year**

DIAGNOSTIC IMAGING TECHNIQUES

Time: Three hours

Maximum: 75 marks

I. Write an essay on any ONE of the following: (1 x 20 = 20)

1. Explain the cause, appearance and rectification of CT artifacts in detail.
2. MR Perfusion and its applications.

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

3. Explain CT guided lung biopsy.
4. Elaborate on MR contrast media.
5. CCD technology in Digital Radiography
6. Ultrasound transducer.

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

7. Explain any two MR artifacts
8. Venous Doppler of lower limbs.
9. Slip ring technology.
10. Gradient coils.
11. Free induction decay.
12. MRI Brain protocol.
13. Time of Flight angiography.
14. Tissue harmonic imaging.
15. Larmor frequency.
16. Acoustic impedance.
