

VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM

**M.SC. (RADIOLOGY AND IMAGING TECHNOLOGY) DEGREE
EXAMINATION - March 2019**

Second Year

NEWER IMAGING MODALITIES

Time: Three hours

Maximum: 100 marks

Answer **ALL** questions

I. Write an Essay on any TWO of the followings: (2 x 20 = 40)

1. Multi detector array helical CT.
2. MR angiography.
3. PET MRI.

II. Write short notes on any TEN of the followings: (10 x 6 = 60)

4. Fourier 3D image formation method.
5. Echo planner imaging.
6. Doppler image artifacts PET.
7. PET.
8. Piezo electric effect.
9. CT- Angiography.
10. Real time ultra sound imaging technique.
11. Functional MRI.
12. Biological Impedance.
13. Elastography.
14. MR spectroscopy.
15. US, MRI special imaging technique.
16. CT image reconstruction.
