

VINAYAKA MISSIONS UNIVERSITY, SALEM

M.SC.(RADIOLOGY AND IMAGING TECHNOLOGY)

DEGREE EXAMINATION – August 2019

First Year

RADIOLOGICAL PHYSICS

Time: Three hours

Maximum: 100 marks

Answer **ALL** questions

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

1. Describe about production of X – Ray.
2. Write detail about film badge and reader system.
3. Explain about interaction of x- ray and gamma ray.

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

4. Draw x-ray generator
5. Explain about HVT
6. Write short notes on ultrasound procedures
7. Write short notes on T1 and T2 relaxation
8. Write short notes on properties of X-Ray film
9. Explain about interaction of ultrasound with matter
10. Write the image artifacts in computerized tomography
11. Describe about types of anode in x-ray machine.
12. Write about LET radiation
13. Explain about MRI procedures
14. Write the application of PACS
15. Describe about pocket dosimetry
16. Explain about helical CT
