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

## B.Sc. (RADIOGRAPHY) DEGREE EXAMINATION August 2019 Second Year

## PHYSICS OF RADIOLOGY, RADIATION PHYSICS AND MEDICAL PHYSICS

Time: Three hours	Maximum: 75 marks
I. Write an essay on any ONE of the following:	$(1 \times 20 = 20)$
1. Explain the working of a rotating anode x-ray tub	be with diagram.
2. Explain about mammography equipment.	
II. Write short essays on any TWO of the following:	$(2 \times 10 = 20)$
3. Autotransofrmer, types and transformer losses	
4. Magnification radiography	
5. Light and beam congruence test	
6. Maintenance of mobile radiography unit	
III. Write short answers on any SEVEN of the followin	(7 x 5 = 35)
7. Radiation safety of radiographer in flurosocopy r	oom
8. Fuses and circuit breakers	
9. Grid controlled x-ray tube	
10. Anode angle and tube rating	
11. Grid ratio and grid lines	
12. Flurosocopic table movements	
13. Dental equipment	
14. Beam restrictors	
15. Added and inherent filtration	
16. Half-wave and full-wave rectifiers	