16. Uses of transformer.

Course Code: 3320102

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

DIPLOMA IN RADIOLOGY AND IMAGING TECHNOLOGY EXAMINATION – September 2021 First Year

GENERAL PHYSICS RADIATION PHYSICS AND PHYSICS OF DIAGNOSTIC RADIOLOGY

Time:	Three hours	Maximum: 75 marks
I. Write an essay on any ONE of the following:		(1 x 20 = 20)
1.	Draw a diagram and explain the production of X-rays.	
2.	Explain in detail the biological effects of X-ray	radiation.
II. W	rite short notes on any TWO of the following:	(2 x 10 = 20)
3.	Bremsstrahlung Radiation	
4.	Pocket dosimeter	
5.	Compton scattering	
6.	Autotransformer, types and transformer losses.	
III. W	rite short answers on any SEVEN of the followin	g: $(7 \times 5 = 35)$
7.	Line focus principle and Heel effect.	
8.	Grid and types of grids.	
9.	Thermo-luminescent Dosimeter.	
10.	Radioactive decay	
11.	Force and work	
12.	Inverse square law	
13.	Ionization	
14.	Heel effect	
15.	Characteristic radiation.	