

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

**DIPLOMA IN RADIOLOGY AND IMAGING TECHNOLOGY
EXAMINATION – August 2019
Second Year**

**QUALITY CONTROL IN RADIOLOGY AND RADIATION
SAFETY**

Time: Three hours

Maximum: 75 marks

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

1. Discuss in detail the biological effects of radiation.
2. Describe in detail evaluation of workload versus radiation factors.

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

3. TDS concept.
4. Personnel and area monitoring
5. Focal spot size circle.
6. Radiation dose

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

7. Dark room.
8. X-ray machine.
9. Shielding.
10. Oscilloscope.
11. Free radicals.
12. Atom
13. Personal safety in X-ray room.
14. Safe light specifications
15. ICRP recommendations
16. History of X-rays.
