

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

**DIPLOMA IN RADIOLOGY AND IMAGING TECHNOLOGY
EXAMINATION – March 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. Explain in detail planning of x-ray rooms and dark rooms.
2. Explain in detail NABH's quality control procedure in radiology.

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

3. Radiation dose.
4. Radiation safety instruments.
5. Effects of time, distance and shielding.
6. X-ray effects on human body.

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

7. ICRP.
8. ALARA.
9. Evaluation of workload versus radiation factors.
10. Roentgen's X-ray experiment.
11. Dose limits.
12. Molecule.
13. Radiological QA.
14. Digital x-ray.
15. Cathode and Anode.
16. Radiation survey.
