

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

**DIPLOMA IN RADIOLOGY AND IMAGING TECHNOLOGY  
EXAMINATION – September 2021  
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 quality control procedure in radiology as per NABH.
2. Explain in detail radiation safety considerations for patient in diagnostic technology.

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

3. ICRP recommendations.
4. Focal spot size circle.
5. Planning of x-ray rooms.
6. Radiation safety instruments.

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

7. Shielding.
8. Dark room assistants.
9. Lead apron applications.
10. Chromosomal mutations.
11. Mammography.
12. Free radical.
13. Safe light specifications.
14. Roentgen's Experiment.
15. Screen film contact test.
16. Triode valves.