

VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM

**M.SC. (RADIOLOGY AND IMAGING TECHNOLOGY) DEGREE
EXAMINATION - March 2019**

Second Year

**QUALITY ASSURANCE AND QUALITY CONTROL IN DIAGNOSTIC
RADIOLOGY AND IMAGING**

Time: Three hours

Maximum: 100 marks

Answer **ALL** questions

I. Write an essay on any TWO of the followings:

(2 x 20 = 40)

1. Quality Assurance of CT based on AERB protocol.
2. Explain about cross Calibration of ion chamber.
3. Discuss about different types of image artifacts.

II. Write short notes on any TEN of the followings:

(10 x 6 = 60)

4. Timer linearity.
5. Light beam alignment test.
6. Focal spot test.
7. Resolution test.
8. Output measurement procedures.
9. CT machine installation procedure.
10. Patient dose studies.
11. PACS.
12. kV linearity.
13. mAs test.
14. Automatic film processing.
15. Phantom studies.
16. Principle of Image reconstruction.
