

VINAYAKA MISSION'S RESEARCH FOUNDATION (DU), SALEM

B.SC (NUCLEAR MEDICINE TECHNOLOGY) DEGREE

EXAMINATION - September 2021

Third Year

QUALITY ASSURANCE IN NUCLEAR MEDICINE

Three Hours

Maximum: 75 marks

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

1. Draw a model Nuclear Medicine Diagnostic department plan and explain in respect of its public safety, contamination and in quality control.
2. Describe the routine daily check (quality control of gamma camera, dose calibrator and

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

3. Checking the power line
4. Field of view and chi square test for Thyroid uptake unit
5. Hard copies record maintains in Films
6. Defects raised service done on date and time

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

7. Isotope calibrator.
8. Energy resolution.
9. Photo peak.
10. Sensitivity.
11. Test for spatial resolution of point source in PET scan.
12. Sino gram.
13. The preparation and dispensing of radio pharmaceuticals
14. Staff and general public for standard procedures
15. Resolution check for gamma camera
16. Focal distance calibration
