

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 1023]

OCTOBER 2023

Sub. Code: 2315

**M.Sc. NUCLEAR MEDICINE TECHNOLOGY
SECOND YEAR (From 2020-2021 onwards)
PAPER V – RADIOPHARMACY - II**

Q. P. Code: 282315

Time: Three hours

Maximum: 100 Marks

Answer ALL Questions

I. Elaborate on:

(2 x 20 = 40)

1. Various Quality Control methods of Radiopharmacy.
2. Various methods of iodination technique and their merits and disadvantages.

II. Write notes on:

(10 x 6 = 60)

1. Various receptor imaging.
2. Labeling with Bi-functional Chelating Agents.
3. Specific Activity and its role in radiopharmacy.
4. HPLC and GAS Chromatography.
5. Physiochemical Tests.
6. Pyrogens and their symptoms and tests.
7. Mechanism of localization of radiopharmaceutical.
8. Good Manufacturing practice (GMP) and ISO standards.
9. Sterilization and sterility testing.
10. ^{99m}Tc Content in ^{99m}Tc -Eluat.
