

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

[AHS 1023]

OCTOBER 2023

Sub. Code: 2313

M.Sc. NUCLEAR MEDICINE TECHNOLOGY
SECOND YEAR (From 2020-2021 onwards)
PAPER III – THERAPEUTIC NUCLEAR MEDICINE TECHNIQUES

Q. P. Code: 282313

Time: Three hours

Maximum: 100 Marks

Answer ALL Questions

I. Elaborate on:

(2 x 20 = 40)

1. Radionuclide Alpha therapy.
2. Precautions, Preparations and post therapeutic instructions to be followed for I-131 radionuclide therapy and its significance.

II. Write notes on:

(10 x 6 = 60)

1. Radiation synovectomy and the various radionuclides used.
2. Compare PRRT therapy with Lu177 and Y90.
3. P32 therapeutic applications.
4. Patient with metastatic medullary carcinoma thyroid suggest the nuclear medicine therapeutic procedure which will suit better and why?
5. How to minimize the radiation exposure to the personnel involved in radionuclide therapy?
6. Design a therapeutic radionuclide room as per AERB regulations.
7. Recent therapeutic radionuclides and radiopharmaceuticals in Nuclear Medicine.
8. Quality control tests that should be done before administering Lu177PSMA.
9. Management of Misadministration of a therapeutic radionuclide (I131).
10. Palliative radionuclide therapeutic radiopharmaceuticals.
