

NUCLEAR MEDICINE PAPER – III

NM/D/14/24/III

Time : 3 hours
Max. Marks : 100
Important instructions:

- Attempt all questions in order.
 - Each question carries 10 marks.
 - Read the question carefully and answer to the point neatly and legibly.
 - Do not leave any blank pages between two answers.
 - Indicate the question number correctly for the answer in the margin space.
 - Answer all the parts of a single question together.
 - Start the answer to a question on a fresh page or leave adequate space between two answers.
 - Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1.	Basic principles of internal dosimetry and briefly enumerate various anthropometric phantoms.	6+4
2.	 a) Dose constraint b) Dose limits c) Stochastic effects of radiation d) ALI (Annual Limit of Intake) 	2.5x4
3.	Design a two-bed high-dose radioiodine therapy Isolation Ward as per AERB norms.	10
4.	a) Autonomously Functioning Thyroid Nodule (AFTN).b) Diffuse Large B-Cell Lymphoma.	5+5
5.	Management of differentiated thyroid cancer patient with spinal metastasis.	10
6.	An elderly female with long-standing multinodular goiter has recently developed atrial fibrillation, How will you proceed with investigations?	10
7.	a) 90Y-Rituximab. b) ²²³ Ra – Chloride.	5x2
8.	Ideal Radionuclides for PRRT.	10
9.	Management of pulmonary metastasis from papillary thyroid cancer in children.	10
10.	How to choose the particular radiopharmaceutical for a particular joint for radiosynevectomy?	10
