

**NUCLEAR MEDICINE****PAPER – III**

Time : 3 hours

NM/D/17/24/III

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. Medical internal radiation dosimetry. 10
2. Management of solitary thyroid module. 10
3. Principle of theranostic and application in neuroendocrine (NET) tumours. 10
4. Various radionuclides being used for radio synovectomy , their limitations and advantages. 10
5. PRRT in neuroendocrine tumours. 10
6. Radioimmunotherapy in lymphoma. 10
7. Pre-requisite and precautions for MIBG therapy in neuroblastoma. 10
8. Characteristics of ideal radiopharmaceutical for radionuclide therapy. 10
9. Management of a patient with Graves' disease 10
10. a) Ra-223 5+5  
b) TACE Vs TARE

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