

NUCLEAR MEDICINE

PAPER – III

Time : 3 hours
Max. Marks : 100

NM/D/17/24/III

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:

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| 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
b) TACE Vs TARE | 5+5 |
