

NUCLEAR MEDICINE

PAPER – III

NM/D/16/24/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. Management strategies in TENIS. 10
2. Indications, preparation, protocol, contraindications and common side effects of ¹³¹I MIBG therapy. 2x5
3. a) Radiation synovectomy. 5+5
b) ¹⁸⁸Rhenium radiopharmaceuticals in therapy.
4. a) Define Radioimmunotherapy. 2+8
b) Enumerate various radiopharmaceuticals involved in management of lymphoma. Mention their merits and demerits.
5. a) Bethesda system of reporting thyroid cytopathology. 5+5
b) TIRADs.
6. a) Serum Thyroglobulin 5+5
b) r TSH
7. ¹⁷⁷ Lutetium: Properties, various radiopharmaceuticals, therapeutic applications, precautions and side effects. 2x5
8. a) TARE. 5+5
b) α-emitter therapies.
9. Explain with diagram(s) the design of a delay tank as per AERB norms. 10
10. What is MIRD? Write the formula for calculation of absorbed dose with elaboration of each component. 10
