

NUCLEAR MEDICINE**PAPER-III**Time: 3 hours
Max. Marks:100

NM/J/20/24/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:

1. Management of differentiated thyroid cancer in children. 10
2. a) Bone scan findings in metabolic bone diseases. 5+5
b) Salivary scintigraphy and its indications.
3. a) Protocol for administration, acute and chronic adverse effects and management in PRRT for Neuroendocrine tumors. 6+4
b) Give protocols for nephro-protection.
4. a) Role of nuclear medicine in LV dyssynchrony. 5+5
b) Pharmacological stress MPI – agents used, protocols and mechanism of action.
5. a) PET/CT imaging in epilepsy. 5+5
b) TRODAT SPECT/CT imaging
6. What are the common causes of leg edema? Discuss scintigraphic findings in a case of lymphedema. 5+5
7. Role of PET-CT in gynecological malignancies. 10
8. a) Scope of nuclear medicine in neonatal hyperbilirubinemia. 5+5
b) Interventions in renal scintigraphy for renal artery stenosis.
9. Define pseudo-progression and hyper-progression. Discuss the evolving role of FDG PET/CT in response evaluation of immunotherapy. 10
10. Indications, contraindications, protocol and procedure of Trans-Arterial Radio-Embolization (TARE). 10
