## NUCLEAR MEDICINE PAPER-III

Time: 3 hours NM/J/20/24/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.	Management of differentiated thyroid cancer in children.	10
2.	<ul><li>a) Bone scan findings in metabolic bone diseases.</li><li>b) Salivary scintigraphy and its indications.</li></ul>	5+5
3.	<ul><li>a) Protocol for administration, acute and chronic adverse effects and management in PRRT for Neuroendocrine tumors.</li><li>b) Give protocols for nephro-protection.</li></ul>	6+4
4.	<ul> <li>a) Role of nuclear medicine in LV dyssynchrony.</li> <li>b) Pharmacological stress MPI – agents used, protocols and mechanism of action.</li> </ul>	5+5
5.	<ul><li>a) PET/CT imaging in epilepsy.</li><li>b) TRODAT SPECT/CT imaging</li></ul>	5+5
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.	<ul><li>a) Scope of nuclear medicine in neonatal hyperbilirubinemia.</li><li>b) Interventions in renal scintigraphy for renal artery stenosis.</li></ul>	5+5
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

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