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NUCLEAR MEDICINE

PAPER-IV

Time: 3 hours NM/J/19/24/IV

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.	MIBG therapy in recurrent/residual Neuroblastoma: Dose, patient preparation and precautions.	2+4+4
2.	PET radiopharmaceuticals beyond FDG.	10
3.	Clinical applications of PET/MRI and its advantages over PET/CT imaging.	5+5
4.	Theranostic role of PSMA based radiopharmaceuticals in prostate cancer.	10
5.	a) Describe in details various transport indices.b) Law of Bergonie and Tribondeau.	5+5
6.	a) Tau Imaging. b) TRODAT.	5+5
7.	a) What is Deauville Score in PET Imaging of Lymphoma?b) PERCIST and RECIST in treatment response evaluation in Gastrointestinal stromal tumours.	5+5
8.	a) PET/CT in parathyroid imaging.b) PET/CT imaging in angiogenesis.	5+5
9.	a) Ac-225 based therapy.b) CXCR4 PET/CT Imaging.	5+5
10.	a) Radiation Hormesis.b) Biological effects of radiation.	5+5
