

FINAL EXAM
DECEMBER 2019

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NATIONAL BOARD OF EXAMINATIONS

NUCLEAR MEDICINE

PAPER-IV

Time: 3 Hours Max. Marks: 100 NM/D/19/24/IV

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.	Response assessment criteria and role of PET-CT in assessment of response to immunotherapy agents.	5+5
2.	Discuss the indications of PET-MRI. What are its advantages and disadvantages?	5+5
3.	a) PEM – merits and demerits.b) PET guided biopsy and its uses.	5+5
4.	a) PETNET score.b) miTNM classification.	5+5
5.	a) Angiogenesis imaging.b) Insulinoma imaging.	5+5
6.	a) Dose limits for radiation worker.b) External contamination monitoring.	5+5
7.	Discuss the currently available alpha-therapy agents and their indications. What are the benefits and pitfalls of alpha-therapy over conventional beta-particle therapy?	10
8.	Misadministration of radiopharmaceuticals: types, causes, consequences and prevention.	10
9.	a) UN number and TREM Card.b) Transport of radioactive packages.	5+5
10.	18F-Fluoro-DOPA: is it a multifaceted imaging agent? Your opinion and justification.	10
