

FINAL EXAM
JUNE 2018

NATIONAL BOARD OF EXAMINATIONS

NUCLEAR MEDICINE
PAPER-IVTIME: 3 HOURS
MAX. MARKS: 100

NM/J/18/24/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:

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| 1. Scope of alpha emitters in therapeutic nuclear medicine. | 10 |
| 2. Role of PSMA PET/CT in the management of prostate cancer. | 10 |
| 3. a) PET Guided Biopsy- reality or hype?
b) FES and Exendin 4 PET/CT | 5+(2.5+2.5) |
| 4. Compare Rhenium-186 vs Rhenium-188 and describe Tungsten 188 – Rhenium 188 generator system. | 5+5 |
| 5. Latest ATA guidelines in the management of differentiated thyroid cancer | 10 |
| 6. a) PET imaging of Lung Carcinoids and NEC of Lungs.
b) Strategy of management of peptide receptor radionuclide therapy (PRRNT) for Atypical Carcinoid. | 5+5 |
| 7. a) PET as a diagnostic tool in infection.
b) Hypoxia imaging is dead or still useful tool? | 5+5 |
| 8. a) CZT Cardiac Cameras
b) Coronary flow reserve – techniques and clinical usefulness | 5+5 |
| 9. a) Applications of Cu-64 radiotracers.
b) C-11 radiotracers and their clinical usefulness. | 5+5 |
| 10. ¹³¹ I-MIBG as diagnostic and therapeutic radiopharmaceutical – Current scenario. | 10 |
