

NUCLEAR MEDICINE
PAPER-III

TIME: 3 HOURS
MAX. MARKS: 100

NM/J/18/24/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:

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| 1. Nuclear medicine imaging in the evaluation and management of epilepsy. | 10 |
| 2. Appropriate Use Criteria for bone scintigraphy in prostate and breast cancer | 5+5 |
| 3. a) Optimization of Iodine-131 dose in treatment of Graves' disease
b) Salient points in the management of thyroid storm. | 5+5 |
| 4. a) Nuclear Medicine techniques in parathyroid imaging
b) Nuclear Medicine in testicular imaging | 5+5 |
| 5. Role of nuclear medicine in the evaluation of neonatal hydronephrosis. | 10 |
| 6. Role of nuclear medicine in the management of neuroblastoma. | 10 |
| 7. a) TKI in differentiated thyroid cancer
b) rhTSH | 5+5 |
| 8. a) Total Lesion Glycosis (TLG)
b) Metabolic Tumour Volume (MTV) | 5+5 |
| 9. Various stress techniques in the evaluation of CAD. | 10 |
| 10. Elaborate upon various scoring systems used in PET for response assessment of therapy in lymphoma. | 10 |
