

**NUCLEAR MEDICINE**

PAPER-III

Time: 3 hours  
Max. Marks:100

NM/J/19/24/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:**

1. Clinical applications of myocardial perfusion scintigraphy in CAD along with appropriate use criteria. 10
2. a) What is Thyroid Storm? 3+7  
b) Clinical manifestations, diagnosis and the management of thyroid storm.
3. a) What is solitary pulmonary nodule (SPN) and its differential diagnosis? 5+5  
b) Describe how CECT and FDG-PET/CT aids in such cases?
4. Enumerate medical and surgical complications in post renal transplant and role of Nuclear Medicine investigations. 10
5. Bone SPECT-CT in benign bone diseases: enumerate with examples. 10
6. a) Ventilation/perfusion (V/Q) scintigraphy. 5+5  
b) Sentinel lymph node imaging.
7. a) RECIST Vs PERCIST 5+5  
b) BEXXAR Vs ZEVALIN
8. a) Alpha emitters 5+5  
b) PRRT in Neuroendocrine tumours
9. a) Ictal and Interictal Epilepsy 5+5  
b) CISCOS Vs SISCOM
10. a) TENIS-Management algorithm 5+5  
b) rhTSH

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