

NUCLEAR MEDICINE**PAPER – IV**

Time : 3 hours
Max. Marks : 100

NM/D/17/24/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. Clinical applications of PET/MRI. | 10 |
| 2. Nuclear Medicine techniques in a patient of fever of unknown origin. | 10 |
| 3. a) Amyloid Brain Imaging.
b) SPECT/CT Vs PET/CT in epilepsy. | 5+5 |
| 4. List Ga-68 labeled radiopharmaceuticals. Describe one in detail. | 10 |
| 5. Contrast media used in PET/CT imaging & their side effects and management. | 10 |
| 6. a) Imaging of Insulinoma with PET/CT.
b) FDG PET/CT in carcinoma of ovary. | 5+5 |
| 7. Recent advances in PET/CT imaging in breast cancer beyond FDG PET/CT. | 10 |
| 8. PET/CT in infection and inflammation. | 10 |
| 9. PET/CT based interventions in Nuclear Medicine. | 10 |
| 10. Emergencies in Nuclear Medicine. | 10 |
