

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 |
