

NUCLEAR MEDICINE

PAPER – II

NM/D/15/24/II

Time : 3 hours

Max. Marks : 100

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.	Role of radionuclide scintigraphy in benign bone diseases.	10
2.	a) What are the various methods of pharmacological stress in MPS? b) Adenosine stress test. c) Nuclear Medicine investigations in the evaluation of myocardial viability.	3+3+4
3.	What is GFR? Enumerate the nuclear medicine techniques in estimation of GFR and elaborate upon one, specifying its merits and demerits.	2+3+5
4.	Role of nuclear medicine in the evaluation of a patient with hypertension.	10
5.	a) Radionuclide cysternography. b) Dacryoscintigraphy. c) Radionuclide testicular imaging. d) Gastric emptying	2.5X4
6.	Role of PET in: a) Fever of unknown origin. b) Solitary Pulmonary Nodule and lung cancer management.	5+5
7.	a) SPECT in epilepsy. b) Dopamine transporter scintigraphic imaging in movement disorders.	5+5
8.	a) Parathyroid imaging by radionuclides. b) Intraoperative gamma probe and its clinical applications.	5+5
9.	a) Enumerate various interventions in nuclear medicine procedures. b) Tumor imaging with non PET tracers.	5+5
10.	a) Role of PET/CT in management of multiple myeloma. b) Clinical applications of F18 choline imaging.	5+5
