NUCLEAR MEDICINE

PAPER - II

NM/J/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.	a) PET myocardial perfusion tracersb) Radionuclide assessment of RV function	5+5
2.	a) Radio-colloides and their applicationsb) Peritoneal scintigraphy	5+5
3.	a) Enumerate the causes of painful limp in a child.b) Role of skeletal scintigraphy in the differential diagnosis.	4+6
4.	a) 11c PIB. b) ¹⁸ F- Choline c) ¹⁸ F-FLT d) ⁹⁹ m Tc EC	2.5x4
5.	Role of PET-CT in: a) Ca rectum. b) Sarcoidosis.	5+5
6.	a) Role of Nuclear Medicine in reflux nephropathy.b) Role of USG in the evaluation of thyroid nodule.	5+5
7.	Critically analyse the role of V/Q scan and CT pulmonary angiogram in the evaluation of pulmonary thromboembolism.	10
8.	a) ⁹⁹ m Tc N-NOET. b) QC tests for FDG.	4+6
9.	Detail the methods of limiting exposures to: a) Occupational workers. b) Patients. c) General Public.	3+4+3
10.	 a) ROC. b) Student 't' test. c) Bayesian analysis. d) Inter & intra observer reliability. 	2.5x4