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NATIONAW DO AFT PSO REMANDENATIONS

NUCLEAR MEDICINE

PAPER – II

Time NM/D/17/24/II : 3 hours

Max. Marks : 100

Important instructions:

DECEMBER 2017

- 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.	Quality control tests required for a radiopharmaceutical before injection to a patient.	10
2.	Radiopharmaceuticals used for hypoxia imaging.	10
3.	a) Fluoro estradiol (FES) PET/CT imaging.b) PSMA PET/CT Imaging.	5+5
4.	Principles of small molecular imaging with PET/CT & clinical applications.	10
5.	Quantitative parameters in myocardial perfusion with SPECT/CT scintigraphy.	10
6.	a) C-14 urea breath test.b) GFR estimation using plasma sample method	5+5
7.	Radiopharmaceuticals used in patients of gastrointestinal bleeding.	10
8.	PET/CT imaging in a patient with progressive memory loss.	10
9.	Mechanism of localization of various radiopharmaceuticals.	10
10.	Nuclear Medicine techniques for estimation of: a) RBC cell mass b) RBC cell survival	5+5