NUCLEAR MEDICINE PAPER-IV

Time: 3 hours NM/D/20/24/IV

Max. Marks:100

Important Instructions:

- You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.
- Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.
- No additional supplementary answer sheet booklet will be provided.
- Attempt all questions in order.
- Each question carries 10 marks.

b) Focal cortical dysplasia

c) DNET

- 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) Total lesion glycolysis (TLG).b) Metabolic tumor volume (MTV).	5+5
2.	Rhenium-188 based radiopharmaceuticals and their uses.	5+5
3.	Alpha radionuclide therapy with emphasis on current status and future potential.	10
4.	Compare and contrast the multiparametric-MR versus nuclear imaging in prostate cancer.	10
5.	a) Amyloid imaging.b) Lewy body dementia (LBD).	5+5
6.	Discuss left ventricular dyssynchrony in patients with heart failure: pathophysiology and diagnosis.	10
7.	Role of nuclear medicine imaging in triple negative breast cancer (TNBC) managements.	10
8.	a) DLBCL vs. ALCL b) TARE vs. TACE	5+5
9.	What is the current ATA definition of radioiodine refractory DTC? Discuss the management strategies of Radioiodine refractory DTC.	5+5
10.	Neuroimaging characteristics of: a) Hippocampal sclerosis	4+3+3
