NUCLEAR MEDICINE PAPER-III

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

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.
- 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) Hepatobiliary scintigraphy in Sphincter of Oddi dysfunction.b) Lymphoscintigraphy.	5+5
2.	Role of nuclear medicine imaging in movement disorders.	10
3.	Bone scintigraphy in: a) Regional pain syndrome. b) Diabetic foot.	5+5
4.	Genetics of differentiated thyroid cancer both in adults and in children.	10
5.	Describe the causes of thyrotoxicosis. Discuss how to manage various thyroiditis.	4+6
6.	Role of PET/CT in staging and response assessment of non-small cell lung cancers.	10
7.	How PET/CT has changed the management of metastatic castration-resistant prostate cancer?	10
8.	Discuss the various types of paragangliomas, imaging options and mutation status that helps current management strategies.	3+3+4
9.	a) Latest WHO grading of neuro-endocrine tumors.b) Carcinoid tumors of lungs.	5+5
10.	Recent WHO classification of brain tumors. Discuss molecular markers and their implication in the nuclear imaging strategies.	5+5
