

NUCLEAR MEDICINE

PAPER-IV

TIME:3HOURS

Max. Marks:100

NM/F/II/2007/4

Attempt all questions in order.

Each question carries 10 marks.

Write short notes on:

1. Working of a nuclear reactor
2. Types of distribution and its relevance in statistical analysis
3. Chi-square test
4. Types of collimator and their characteristics
5. Practical utilities of various types of radiation detector devices used in nuclear medicine
6. Interaction of radiation with mater – give examples of each type in practice
7. Waste management in a nuclear medicine department
8. How would you plan management of a nuclear accident in a reactor as a nuclear medicine physician
9. Salient criteria in selecting a workstation for a nuclear medicine department
10. Types of PET detectors – their merits and limitations