

Program	Institute
M.Sc. Nuclear Medicine Technology (NMT)	Manipal College of Health Professions (MCHP), Manipal

## MET 2025 Details

- Test Duration: **120 minutes**
- Total Questions: **200 MCQs**
  - Human Anatomy & Physiology (35 Qs), Cell Biology & Biochemistry (35 Qs), Basic Mathematics in Nuclear Medicine (10 Qs), Physics in Nuclear Medicine (40 Qs), Radiochemistry and Radiopharmacy (40 Qs) Nuclear Medicine Instrumentation and Imaging (40 Qs)
- Max Marks: **800**
- Marking Scheme: **+4 for every correct answer, -1 for every wrong answer, 0 for every unanswered question**
- No. of Attempts: **1**
- Schedule & Mode: Refer <https://manipal.edu/met> for updates

## HUMAN ANATOMY AND PHYSIOLOGY

Endocrine and Nervous system, Circulatory system, Excretory and reproductive system, Respiratory system, Digestive system, Musculoskeletal system.

## CELL BIOLOGY AND BIOCHEMISTRY

Structure and functions of cell and cellular organelles, Cell cycle, Cell signaling and cell death, Immunology, Enzymes, Carbohydrates and glycobiology, Bioenergetics

## BASIC MATHEMATICS IN NUCLEAR MEDICINE

Trigonometry & functions, Limits & derivatives, Graphic representation, Pre-algebra, basic statistics, and algebra skills.

## PHYSICS IN NUCLEAR MEDICINE

Atoms and atomic models, Nuclear radiations and their properties, Radioactivity, decay equations, Units of radioactivity and half-life, Interaction of different ionizing radiations with matter, Gas filled detectors, Scintillation detectors.

## RADIOCHEMISTRY AND RADIOPHARMACEUTICALS

Production of Radionuclide (Nuclear Reactor, Cyclotron, Radionuclide generators), Radiopharmaceuticals their ideal characteristics, Tc-99m labelled radiopharmaceuticals, Chromatography, Methods of sterilization.

## NUCLEAR MEDICINE INSTRUMENTATION AND IMAGING

Gamma Camera, SPECT, PET principle and working, Hybrid Imaging Modalities principle and working, Nuclear Medicine imaging procedures.

♣ Best of Luck ♣

Updated: 27 January 2025 9.00 AM