

# Certified Medical Dosimetrist Practice Test Questions and Answers

## 1. What is the primary role of a medical dosimetrist in radiation therapy treatment planning?

- A) Operating linear accelerators during treatment
- B) Calculating and optimizing radiation dose distributions
- C) Performing patient consultations and examinations
- D) Maintaining treatment equipment calibration

## 2. Which imaging modality is most commonly used for radiation treatment planning?

- A) Magnetic Resonance Imaging (MRI)
- B) Computed Tomography (CT)
- C) Positron Emission Tomography (PET)
- D) Ultrasound imaging

## 3. What does the term "isodose curve" represent in radiation therapy planning?

- A) Lines connecting points of equal radiation dose
- B) Treatment beam entrance angles
- C) Patient positioning coordinates
- D) Machine calibration parameters

## 4. Which factor is most critical when designing a treatment plan to minimize radiation exposure to healthy tissue?

- A) Treatment time duration
- B) Beam energy selection
- C) Critical organ dose constraints
- D) Patient immobilization devices

Answers: 1-B 2-B 3-A 4-C

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