



Initial Certification in Medical Physics

Part 1 Content Guides and Sample Questions

PLEASE NOTE: List of Constants and Physical Values for Use on the Part 1 Physics Exam

The ABR provides candidates with a list of constants, physical values, and related information, which can be found on [this page](#). While the list includes many constants and physical values, the ABR does not warrant the list as a compilation of all constants and physical values needed on the exams. Candidates should review the list carefully before their exams to familiarize themselves with the contents and list organization.

Content Guides

The content of all ABR exams is determined by a panel of experts who select the items based on a content guide that the ABR publishes. The content guides are assembled using guidance from medical physics organizations. The content guides are general documents, and individual exam items may not appear to be exactly congruent with the content listed in the guide. In addition, since there is only a limited number of items on any exam, selected items will only be a sample from the larger domain of the content guide.

Part 1: General Content Guide

- **Atomic / Nuclear Physics, Sources of Radiation, Interaction of Radiation with Matter**
 - Basic atomic and nuclear physics
 - Radioactivity
 - Sources of radioactive material
 - Radioactive material uses and safety
 - Radiation generating equipment: photons, electrons and heavy particles
 - Interactions of photon and particle radiation with matter
 - Dosimetry concepts and units
 - Spatial distribution/transmission of radiation (photons, protons and electrons)
- **Radiation Instrumentation and Measurement**
 - Gas-filled detectors
 - Scintillation detectors
 - Solid state detectors
 - Neutron detectors
 - Emerging and miscellaneous detectors

Abr Part 1 Study Guide

Lucy Zimmerman



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Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Abr Part 1 Study Guide**

In some sort of inundated with displays and the cacophony of immediate transmission, the profound power and emotional resonance of verbal beauty usually disappear into obscurity, eclipsed by the continuous onslaught of sound and distractions. However, situated within the lyrical pages of **Abr Part 1 Study Guide**, a charming perform of literary elegance that pulses with organic thoughts, lies an wonderful journey waiting to be embarked upon. Composed by a virtuoso wordsmith, that exciting opus manuals viewers on an emotional odyssey, gently revealing the latent potential and profound influence embedded within the intricate internet of language. Within the heart-wrenching expanse with this evocative evaluation, we will embark upon an introspective exploration of the book is key subjects, dissect their captivating writing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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