

Test Specification Matrix 2010-2014

MDCB Test Specification Matrix: Revised August 2009 based on the Medical Dosimetry Job Task Analysis Content Outline Category		-
I. RADIATION PHYSICS		% Weight
A. Radioactivity		16%
B. Production of x-rays		
C. Interaction of radiation with matter		
D. Treatment machine characteristics (e.g., linear accelerator, cobalt 60, orthovoltage, superficial x-rays)		
E. Imaging modalities (e.g., MRI, PETs, CT, ultrasound, SPECT, KV, MV cone beam)		
F. Imaging modalities (e.g., linear accelerator, cobalt 60, orthovoltage, superficial X-rays)		
G. Radiation units (e.g., activity, exposure, absorbed dose, and dose equivalent, radiation monitoring)		
II. DOSE CALCULATION METHODS		20%
A. Applied mathematics (e.g., geometry, trigonometry)		
B. Basic external beam calculations (computer and manual) calculations (e.g., electron and photon beam)		
C. Effects of beam modifying devices (e.g., wedges, bolus, partial transmission blocks, compensators)		
D. Irregular field calculations		
E. Special calculations (e.g., off axis, gap calc, entrance/exit dose)		
F. Manual corrections for tissue inhomogeneities		
G. Dose normalization calculations (e.g., ICRU standards)		
III. TREATMENT PLANNING		30%
A. Isodose curve parameters		
B. Isodose distributions		
C. Electron beam dose distributions		
D. Beam energy selection		
E. Radiobiology (e.g., dose tolerances, hypofractionation, time dose fractionation (tdf) calculations, biologic modeling)		
F. Dose volume histogram (dvh) (e.g., differential, cumulative)		
G. IMRT, ARC therapy		
H. Cross-sectional anatomy (e.g., site specific clinical oncology)		
I. Treatment machine limitations		
J. Special procedures (e.g., TBI, TSEI, IORT, SR5, SBRT)		
K. Algorithms (e.g., treatment planning software, calculation)		
IV. LOCALIZATION		10%
A. Acquisition of patient data		
B. Patient positioning		
C. Ancillary treatment devices (e.g., breast board, bite block)		
D. Treatment simulations (e.g., conventional simulations, CT simulations, PET-CT, 4D)		
E. Medical imaging with application to radiation oncology		
F. Digitally Reconstructed Radiograph (DRR/DCR)		
G. Image registration (image fusion)		
H. IGRT (e.g., CBCT, ultrasound guidance, KV-KV, MV-MV, infrared, fluoroscopy, CT on rails, fiducials)		
I. Patient immobilization techniques		
J. Site specific organ motion (e.g., bladder extension, respiratory motion)		

Mdcb Study Guide

Michal Rosen-Zvi



Mdcb Study Guide:

Review of Medical Dosimetry William Amestoy, 2015-03-03 This study guide will be a reliable support and easy to use source of information for students in the fields of dosimetry physics radiation oncology and therapy as they progress through the educational levels in preparation for board examinations The theoretical and practical knowledge gained by students on previous courses or in clinical settings is reinforced by means of almost 1200 questions and accompanying detailed analytical answers In order to cater for the needs of all students the questions are arranged according to three levels of difficulty The level 1 questions are mainly intended for those hoping to pass the Medical Dosimetrist Certification Board MDCB exam but will also be beneficial for Medical Physics candidates taking written exams and for Radiation Oncology residents The level II questions are in general clinically related and will be relevant for any student while the level III questions are advanced and are especially suitable for American Board of Radiology candidates or those taking equivalent exams elsewhere in the world The study guide is broken down into different subject areas with provision of multiple questions and answers on each subject In addition the mathematical and physics questions include brief explanations of how the student can solve each problem At the end of the guide three practice tests are included with the same number of questions as are found in the MDCB exam These tests will help students to test their knowledge and improve their test taking speed Medical Dosimetry

Certification Study Guide, Second Edition Govinda Rajan, 2015-10-01

Barron's Math 360: A Complete Study Guide to Geometry with Online Practice Barron's Educational Series, Lawrence S. Leff, Elizabeth Waite, 2021-09-07 Barron's Math 360 Geometry is your complete go to guide for everything geometry This comprehensive guide is an essential resource for High school and college courses Homeschooling Virtual Learning Learning pods Inside you'll find Comprehensive Content Review Begin your study with the basic building blocks of geometry and build as you go Topics include the building blocks of geometry angle pairs and perpendicular lines transformation geometry ratios and proportions area and volume and much more Effective Organization Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs Clear Examples and Illustrations Easy to follow explanations hundreds of helpful illustrations and numerous step by step examples make this book ideal for self study and rapid learning Practice Exercises Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts These checkup exercises along with the answers and solutions will help you assess your understanding and monitor your progress Access to Online Practice Take your learning online for 50 practice questions designed to test your knowledge with automated scoring to show you how far you have come Guide to Field Experiments Imperial Chemical Industries, Ltd. Jealott's Hill Research Station, 1950 **Water Quality Assessments** Deborah V Chapman, 1996-08-22 This guidebook now thoroughly updated and revised in its second edition gives comprehensive advice on the designing and setting up of monitoring programmes for the purpose of providing valid data for water quality assessments in all types of

freshwater bodies It is clearly and concisely written in order to provide the essential information for all agencies and individuals responsible for the water quality *JOIDES Journal* Joint Oceanographic Institutions for Deep Earth Sampling,1995 **Proceedings of the Ocean Drilling Program** Ocean Drilling Program,1993 Proceedings of the Ocean Drilling Program Ocean Drilling Program,1992-05-19 The Athenaeum ,1884 *Athenaeum and Literary Chronicle* ,1884

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