



CCPM Membership Written Exam

Reading syllabus – Part I – General Medical Physics

This is not meant to be a definitive list of references, but a good selection that should help prepare the candidate for the general medical physics questions in Part I of the written membership exam.

General medical physics

Johns and Cunningham's The physics of Radiology (5th ed), E. Bezak, A. H. Beddoe, L. G. Marcu, M. Ebert, R. Price, Charles C Thomas, Springfield 2021

Fundamentals of Ionization Radiation Dosimetry, P. Andreo, D. T" Burns, A. E. Nahum, J. Seuntjens, F. H. Attix , Wiley 2017

Radiation Physics for Medical Physicists (3rd Ed), E.B. Podgorsak, Springer 2016

ICRU Report 85a. Fundamental Quantities and Units for Ionising Radiation 2011.

Radiotherapy

The Physics of Radiation Therapy (4th Ed.), F.M. Khan, Lippincott Williams & Wilkins, 2010

Radiation Oncology Physics: a Handbook for Teachers and Students, E.B. Podgorsak (Editor); IAEA, 2005

Diagnostic Imaging

Essential Physics of Medical Imaging (3rd Ed.), J.T. Bushberg, J.A. Seibert, E.M. Leidholdt, J.M" Boone; Lippincott Williams & Wilkins, 2001

Review of Radiological Physics (3rd Rd.): W. Huda, R.M. Slone; Lippincott Williams & Wilkins, 2010.



Nuclear Medicine

Physics in Nuclear Medicine (4th Ed.) S.R. Cherry, J.A. Sorenson, M.E. Phelps, Elsevier Saunders, 2012

Essential Physics of Medical Imaging (3rd Ed.), J.T. Bushberg, J.A. Seibert, E.M. Leidholdt, J.M. Boone; Lippincott Williams & Wilkins, 2001

MR Imaging

Principles of Magnetic Resonance Imaging, A Signal Processing Perspective, Z-P Liang and P.C. Lauterbur, IEEE Press, 2000

Essential Physics of Medical Imaging (3rd Ed.), J.T. Bushberg, J.A. Seibert, E.M. Leidholdt, J.M. Boone; Lippincott Williams & Wilkins, Philadelphia, 2001

Statistics

Introductory Medical Statistics, R.F. Mould, Medical Science Series, 1998

Applications of Statistics to Medicine and Medical Physics, E. Nickoloff, Medical Physics Publishing 2011

Biostatistics, L.D. Fisher, G. van Belle, Wiley 1993

Physiology/Anatomy

Human Anatomy by K.M. Van de Graaff, OR

Introduction to Anatomy and Physiology by S.J. Hall, M.A. Provost-Craig and W.C. Rose, OR

Introduction to Anatomy and Physiology by D.C. Rizzo

Human Anatomy and Physiology (10th ed), E.N. Marieb, K. N. Hoehn, Pearson 2015

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Radiation Biology

Radiation Biology for the Radiologist (7th Ed.) E.J. Hall and A.J. Giaccia, Lippincott Williams & Wilkins, 2012

Basic Clinical Radiobiology C.G. Steel, Arnold, 2009

Other topics

Clinical Ethics: A Practical Approach to Ethical Decisions in Clinical Medicine, Sixth Edition (Jonsen, Clinical Ethics

The Oxford Textbook of Clinical Research Ethics, Ezekiel J. Emanuel, Christine C. Grady, et ál. 2011

COMP/CCPM Code of Ethics <https://ccpm.ca/ccpm-english/main/about-ccpm/code-of-ethics.html>

Panel on Research Ethics Chapter 11: Clinical Trials https://ethics.gc.ca/eng/tcps2-epctc2_2018_chapter11-chapitre11.html