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Textbook of diagnostic microbiology mahon pdf

By providing a solid introduction to the basics of diagnostic microbiology, this accessible, full-color text will help you develop the problem-solving skills you need to succeed in a clinical setting. The reader-friendly approach to microbiology is gradually shifting from basic concepts to advanced understanding, guiding you through the systematic identification of etiological agents of infectious diseases. The building block's approach encourages the recall of previously studied information, improving your critical skills and solving problems. Case in Point presents case studies at the beginning of each chapter. The issues to consider encourages you to analyze and understand as a point. Key conditions provide a list of the most important and relevant terms in each chapter. The goals give measurable results to achieve by completing the material. Items to be remembered, summarize and help to clearly identify the key concepts covered in each chapter. Learning assessment questions assess how well you have mastered the material. The new content addresses bone and joint infections, genital tract infections, and nosocomial infections. The significantly updated chapter includes current information on molecular biology and emphasizes the content of multidrug-resistant bacteria. Reorganized chapters focus the most relevant information about viruses and parasites that are also passed on to humans. Case studies on the Evolve website allow you to apply the information you learn to realistic scenarios that are found in the lab. Completely updated and in full color, this 3rd edition covers all the necessary diagnostic microbiology. The logical approach to the building block provides what students need to know in a simple, memorable format. The material is presented on a progressive basis, from basic principles and concepts to the systematic identification of etiological agents of infectious diseases, promoting a broader understanding and development of problem-solving skills. Part I text explains the basic principles and concepts, creating a solid foundation in microbiology. Based on these foundations, Part II highlights methods for identifying significant isolates. Part III uses the organ system's approach to discuss laboratory diagnosis of infectious diseases - with a focus on the most medically significant and common diseases. More than 800 full-color illustrations. Practical procedures describe laboratory methods. An example starts each chapter with a related, real situation. All chapters facilitate learning with features such as contours, goals, key terms, resume chapters, memorization points, and learning assessment questions. Five New Chapters: Laboratory Role in Infectious Control Biochemical Identification of Gramnegative Bacteria Immunodiagnosis Disease Agents Bioterror Biofilms: Architects Architects The chapter of antimicrobial resistance testing has been expanded to include new microbial resistance and pharmacokinetic and pharmacodynamic principles and applications. Issues to consider encourage critical thinking and analysis featured case studies. The term glossary serves as a quick reference. The new co-editor, Don Lehman, brings years of educational experience. By providing a reader-friendly building block approach to basic diagnostic microbiological, this accessible, full-color text will help you develop the problem-solving skills you need to succeed in a clinical setting. This updated edition contains new content of nanomedicine and HIV/AIDS and immunocompromised patients, including up-to-date information on prevention, treatment conditions, and CDC guidelines. The updated photos offer new examples of automated lab appliances, while case studies, review questions and learning goals provide information in an easy-to-learn way. The building block approach encourages you to use previously studied information to hone your critical thinking skills and problem solving. Full-color design, with many full-color photo-micrographs, prepares you for the reality of diagnostic microbiology. The learning goals at the beginning of each chapter deliver you a measurable result to achieve by completing the material. The example at the beginning of each chapter gives you the opportunity to form your own questions and answers through discussion points. The questions to review the box encourage you to analyze the important points. Bold key terms at the beginning of each chapter equip you with a list of the most important and relevant terms in each chapter. Items for memorable sections at the end of each chapter define key concepts in a fast, bullet format. Practical procedures describe exactly what happens in the microlaboratory, making the content more interesting and relevant. The learning assessment questions at the end of each chapter allow you to assess how well you have mastered the material. The Bioterrorism Agents chapter provides you with the most up-to-date information about this hot topic. The glossary of key terms at the end of the book delivers you a quick link to search for definitions. New functions! Nanomedicine and HIV/AIDS, as well as the contents of immunocompromised patients, provide you with up-to-date information on prevention, treatment conditions, and CDC guidelines. New functions! Updated photos introduce you to the equipment you'll use in the lab. New functions! Case checks throughout each chapter link the content to case studies to improve understanding. New functions! Edited and printed laboratory guidance provides additional opportunities to study the content of the course using scenarios with questions to strengthen concepts. Viewing questions for each learning goal will help you learn to think critically about information in each chapter, boosting and preserving the material. Download... Learn how to develop the problem-solving skills you need to succeed in a clinical setting! Diagnostic Microbiology Textbook, 6th edition uses a reader-friendly building block approach to basic diagnostic microbiology. This updated edition contains new content of viruses such as zika, an expanded molecular chapter, as well as up-to-date information on prevention, treatments, and CDC guidelines. The updated photos offer clear examples of automated laboratory tools, while case studies, review questions and learning goals provide information in an easy-to-understand, accessible manner for students at all levels. The building block approach encourages you to use previously studied information to hone critical thinking skills and problem solving. Full-color design, with many full-color photo-micrographs, prepares you for the reality of diagnostic microbiology. The example at the beginning of each chapter gives you the opportunity to form your own questions and answers through discussion points. Practical procedures describe exactly what happens in the microlaboratory, making the content more practical and relevant. The Bioterrorism Agents chapter provides you with the most up-to-date information about this hot topic. The questions to review the box encourages you to analyze the important points. Case checks throughout each chapter link the content to case studies to improve understanding. Bold key terms at the beginning of each chapter equip you with a list of the most important and relevant terms in each chapter. The learning goals at the beginning of each chapter deliver you a measurable result to achieve by completing the material. Viewing questions for each learning goal will help you think critically about the information in each chapter, increasing your understanding and preservation of the material. The learning assessment questions at the end of each chapter allow you to assess how well you have mastered the material. Items for memorable sections at the end of each chapter define key concepts in a fast, bullet format. The edited and printed lab guide provides you with additional opportunities to explore the content of the course using real-world question scenarios to strengthen concepts. The glossary of key terms at the end of the book delivers you a quick link to search for definitions. Part I: Introduction to Clinical Microbiology1. Bacterial cellular structure, physiology, metabolism and genetics2. Host-parasite interaction3. The role of the laboratory in infection control4. 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Eye Infections Appendix A: Selected Bacteriological Culture MediaAppendix B: Selected Mycology Media, Fluid, and StainsAppendix C: Selected ProceduresAppendix D: Answers to Learning Assessment QuestionsGlossaryIndex No. Published time: 1088 English Copyright: © Saunders 2019 Published: 13 March 2018 Image: Saunders Hardcover ISBN: 9780323613170 E ISBN book: 9780323482127 ISBN e-book: 9780323382165 Director, Development Organization (retired), Office of Health Care and Services, Institute of Learning Rockville, Maryland; Adjunct Professor, Medical Laboratory of Sciences, Integrated Health Sciences Department, School of Medicine and Medical Sciences, George Washington University, Washington, D.C. 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