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**Case-study in Bacteriology** (Prof. Dr. Alaa Al-Charrakh):

1- Five children from the same school presented with abdominal pain and diarrhoea (streaked with blood) over a period of 3 days. Upon investigation it was found that one of the children had recently been abroad with his family. Fecal specimen was collected and sent to microbiology lab. Many pus cells on direct microscopy and non-lactose fermenting colonies were found on MacConkey's agar. On motility test it was non-motile

- a. What is the identity of the organism?                      b. What is the mode of spread?

2- A 30 years old man presented to out-patient gastroenterology clinic with the complaints of:

- Changed taste & bad breath
- Recurrent epigastric pain & heart burn

On gastroscopy he was diagnosed as having gastric ulcer. A biopsy was taken and sent to microbiology lab;

- a) What tests will be performed on the biopsy specimen?  
b) What is the likely organism causing the disease?  
c) What other lab tests will help to confirm the identity of the organism?

3- A previously normal, full-term infant developed bilateral conjunctivitis at 2 weeks of age. The conjunctivitis was followed by severe coughing, but the infant remained afebrile. When the infant was 4 weeks old, a chest X-ray showed bilateral symmetrical interstitial infiltrates. The white blood cell (WBC) count was  $14,000/\text{mm}^3$  with 32% segmented neutrophils, 58% lymphocytes, 2% monocytes, and 4% eosinophils. Which of the following is the most probable infectious agent?

- A. *Chlamydia trachomatis*                      B. *Streptococcus agalactiae*  
C. *Haemophilus influenza*                      D. *N. meningococcus*

4. A 16-year-old girl was admitted to a Merjan teaching hospital because of hypotension, cyanosis, high fever ( $39.9^{\circ}\text{C}$ ), and bilateral, non-fluctuant, inguinal, and axillary lymphadenopathy. The patient died the same day. Blood cultures obtained on admission were positive for bipolar-staining, short, gram-negative bacilli. What is the most probable etiologic agent?

- A. *Yersinia pestis*                      B. *K. rhinoscleromatis*

# Clinical Microbiology Case Study Questions With Answers

**Diane Brown, Thomas Buckley, Robyn  
Aitken, Helen Edwards**



## **Clinical Microbiology Case Study Questions With Answers:**

Medical Microbiology Patrick R. Murray, PhD, Ken S. Rosenthal, PhD, Michael A. Pfaller, MD, 2015-10-28 Turn to Medical Microbiology 8th Edition for a thorough clinically relevant understanding of microbes and their diseases This succinct easy to use text presents the fundamentals of microbiology and immunology in a clearly written engaging manner effectively preparing you for your courses exams and beyond Coverage of basic principles immunology laboratory diagnosis bacteriology virology mycology and parasitology help you master the essentials Review questions at the end of each chapter correlate basic science with clinical practice to help you understand the clinical relevance of the organisms examined Clinical cases illustrate the epidemiology diagnosis and treatment of infectious diseases reinforcing a clinical approach to learning Full color clinical photographs images and illustrations help you visualize the clinical presentations of infections Summary tables and text boxes emphasizing essential concepts and learning issues optimize exam review Additional images 200 self assessment questions NEW animations and more Student Consult eBook version included with purchase This enhanced eBook experience includes access on a variety of devices to the complete text videos images and references from the book Thoroughly updated chapters include the latest information on the human microbiome and probiotics prebiotics including a new chapter on Human Microbiome In Health and Disease NEW chapter summaries introduce each microbe chapter including trigger words and links to the relevant chapter text on e book version on Student Consult providing a concise introduction or convenient review for each topic Online access to the complete text additional images 200 self assessment questions NEW animations and more is available through Student Consult      **Medical Microbiology** Michael Ford, 2019 This text examines medical microbiology from the viewpoint of the biomedical scientist based in a microbiology laboratory It explains the basis of key laboratory techniques as applied to medical microbiology including bacteriology mycology and virology how and why they work and what they can tell us      **Medical Microbiology E-Book** Patrick R. Murray, Ken Rosenthal, Michael A. Pfaller, 2015-09-15 Turn to Medical Microbiology 8th Edition for a thorough clinically relevant understanding of microbes and their diseases This succinct easy to use text presents the fundamentals of microbiology and immunology in a clearly written engaging manner effectively preparing you for your courses exams and beyond Coverage of basic principles immunology laboratory diagnosis bacteriology virology mycology and parasitology help you master the essentials Review questions at the end of each chapter correlate basic science with clinical practice to help you understand the clinical relevance of the organisms examined Clinical cases illustrate the epidemiology diagnosis and treatment of infectious diseases reinforcing a clinical approach to learning Full color clinical photographs images and illustrations help you visualize the clinical presentations of infections Summary tables and text boxes emphasizing essential concepts and learning issues optimize exam review Additional images 200 self assessment questions NEW animations and more Student Consult eBook version included with purchase This enhanced eBook experience includes access on a variety of devices to the

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Immunology & Serology in Laboratory Medicine - E-Book Mary Louise Turgeon, 2013-02-15 The 5th edition of this classic text sets the standard for comprehensive coverage of immunology Building from a solid foundation of knowledge and skills trusted author Mary Louise Turgeon takes you from basic immunologic mechanisms and serologic concepts to the theory behind the procedures you ll perform in the lab Immunology Serology in Laboratory Medicine Fifth Edition is the go to resource for everything from mastering automated techniques to understanding immunoassay instrumentation and disorders of infectious and immunologic origin Packed with learning objectives review questions step by step procedures and case studies this text is your key to succeeding in today s modern laboratory environment Full color six page insert of photomicrographs provide a better picture of what you ll see in the laboratory Learning objectives at the beginning of each chapter offer a measurable

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**Immunology & Serology in Laboratory Medicine** Mary Louise Turgeon, 2013-02-15 The 5th edition of this classic text sets the standard for comprehensive coverage of immunology Building from a solid foundation of knowledge and skills trusted author Mary Louise Turgeon takes you from basic immunologic mechanisms and serologic concepts to the theory behind the procedures you'll perform in the lab Immunology Serology in Laboratory Medicine Fifth Edition is the go to resource for everything from mastering automated techniques to understanding immunoassay instrumentation and disorders of infectious and immunologic origin Packed with learning objectives review questions step by step procedures and case studies this text is your key to succeeding in today's modern laboratory environment Full color six page insert of photomicrographs provide a better picture of what you'll see in the laboratory Learning objectives at the beginning of each chapter offer a measurable outcome you can achieve by completing the material Chapter highlights at the end of each chapter provide a summary of the most important information covered in each chapter Review questions at the end of each chapter are tied to learning objectives further enhance your understanding Case studies challenge you to apply your knowledge and help strengthen your critical thinking skills Glossary at the end of the book provides quick access to key terms and definitions NEW Expanded chapter on Vaccines as the importance of vaccines continues to become more evident NEW Updated chapter on Molecular Techniques incorporates the newest technology specific to immunology NEW Key terms at the beginning of each chapter help you learn the important vocabulary in immunology NEW Case studies with added multiple choice questions in addition to critical thinking questions will help you apply your knowledge and develop critical thinking skills

**Clinical Biochemistry** Nessar Ahmed, 2017 Includes bibliographical references and index

**Linne & Ringsrud's Clinical Laboratory Science E-Book** Mary Louise Turgeon, 2018-12-22 Thoroughly updated and easy to follow Linne Ringsrud's Clinical Laboratory Science Concepts Procedures and Clinical Applications 8th Edition offers a fundamental overview of the laboratory skills and techniques you'll need for success in the clinical laboratory Author Mary Louise Turgeon's simple and straightforward writing clarifies complex concepts and her unique discipline by discipline approach helps you build knowledge and learn to confidently perform routine clinical laboratory tests with accurate effective results Topics like safety

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**Public Health Promotion and Medical Education Reform** Zhiyong Zhang,Jian Chen,Trine Fink,Yasusei Kudo,William Ka Fai Tse,2022-05-26

**Medical Microbiology,with STUDENT CONSULT Online Access,7** Patrick R. Murray,Ken S. Rosenthal,Michael A. Pfaller,2013-01-01 The new edition of this popular text presents microbiology in a succinct easy to use and engaging manner Clear discussions explain how microbes cause disease in humans and review the updated vaccines and new antibiotics currently available to treat these diseases Expert coverage of basic principles the immune response laboratory diagnosis bacteriology virology mycology and parasitology ensures that you ll understand all the facts vital to the practice of medicine today A revised artwork program illustrates the appearance of disease simplifying complex information while text boxes and additional summary tables emphasize essential concepts and learning issues for more efficient exam review Online access to Student Consult where you ll find the complete contents of the book fully searchable Integration Links to bonus content in other Student Consult titles updated features for both students and instructors and much more further enhances your study and exponentially boosts your reference power Focuses on why the biologic properties of organisms are important to disease in humans equipping you with a practical understanding of microbiology Examines etiology epidemiology host defenses identification diagnosis prevention and control for each microbe in consistently organized chapters enabling you to find the information you need fast Features summary tables and text boxes

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*Teaching and Learning Through Inquiry* Virginia S. Lee, 2023-07-03 Inquiry guided learning IGL refers to an array of classroom practices that promote student learning through guided and increasingly independent investigation of complex questions and problems Rather than teaching the results of others investigations which students learn passively instructors assist students in mastering and learning through the process of active investigation itself IGL develops critical thinking independent inquiry students responsibility for their own learning and intellectual growth and maturity The 1999 Boyer Commission Report emphasized the importance of establishing a firm grounding in inquiry based learning and communication of information and ideas While this approach capitalizes on one of the key strengths of research universities the expertise of its faculty in research it is one that can be fruitfully adopted throughout higher education North Carolina State University is at the forefront of the development and implementation of IGL both at the course level and as part of a successful faculty led process of reform of undergraduate education in a complex research institution This book documents and explores NCSU s IGL initiative from a variety of perspectives how faculty arrived at their current understanding of inquiry guided learning and how they have interpreted it at various levels the individual course the major the college the university wide program and the undergraduate curriculum as a whole The contributors show how IGL has been dovetailed with other complementary efforts and programs and how they have assessed its impact The book is divided into four parts the first briefly summarizing the history of the initiative Part Two the largest section describes how various instructors departments and colleges in a range of disciplines have interpreted inquiry guided learning It provides examples from disciplines as varied as ecology engineering foreign language learning history music microbiology physics and psychology It also outlines the potential for even broader dissemination of inquiry guided learning in the undergraduate curriculum as a whole Part Three describes two inquiry guided learning programs for first year students and the interesting ways in which NCSU s university wide writing and speaking program and growing service learning program support inquiry guided learning Part Four documents how the institution has supported instructors and how they have supported themselves as well as the methods used to assess the impact of inquiry guided learning on students faculty and the institution as a whole The book has been written with three audiences in mind instructors who want to use inquiry guided learning in their classrooms



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## **Table of Contents Clinical Microbiology Case Study Questions With Answers**

1. Understanding the eBook Clinical Microbiology Case Study Questions With Answers
  - The Rise of Digital Reading Clinical Microbiology Case Study Questions With Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Clinical Microbiology Case Study Questions With Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Clinical Microbiology Case Study Questions With Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Clinical Microbiology Case Study Questions With Answers
  - Personalized Recommendations
  - Clinical Microbiology Case Study Questions With Answers User Reviews and Ratings

- Clinical Microbiology Case Study Questions With Answers and Bestseller Lists
- 5. Accessing Clinical Microbiology Case Study Questions With Answers Free and Paid eBooks
  - Clinical Microbiology Case Study Questions With Answers Public Domain eBooks
  - Clinical Microbiology Case Study Questions With Answers eBook Subscription Services
  - Clinical Microbiology Case Study Questions With Answers Budget-Friendly Options
- 6. Navigating Clinical Microbiology Case Study Questions With Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Clinical Microbiology Case Study Questions With Answers Compatibility with Devices
  - Clinical Microbiology Case Study Questions With Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Clinical Microbiology Case Study Questions With Answers
  - Highlighting and Note-Taking Clinical Microbiology Case Study Questions With Answers
  - Interactive Elements Clinical Microbiology Case Study Questions With Answers
- 8. Staying Engaged with Clinical Microbiology Case Study Questions With Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Clinical Microbiology Case Study Questions With Answers
- 9. Balancing eBooks and Physical Books Clinical Microbiology Case Study Questions With Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Clinical Microbiology Case Study Questions With Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Clinical Microbiology Case Study Questions With Answers
  - Setting Reading Goals Clinical Microbiology Case Study Questions With Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Clinical Microbiology Case Study Questions With Answers
  - Fact-Checking eBook Content of Clinical Microbiology Case Study Questions With Answers
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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