

## CHAPTER 43 THE IMMUNE SYSTEM

### Learning objectives

Read pages 929-952 of "Biology" Campbell 9<sup>th</sup> edition to make **your** Cornell notes and understand the following learning objectives below. Supplementary reading can be from the photocopied supplements from "Biology Study Guide" Campbell & Reece and Cliff Notes AP Biology. Remember the following are **NOT** questions but guidelines for your note taking. Reading for comprehension and identifying key ideas and concepts is a skill required for AP Biology. **NO COPIED NOTES ALLOWED!**

### Innate Immune Defenses Against Infection

- ☐ Distinguish between innate and acquired immunity.
- ☐ Explain how the physical barrier of skin is reinforced by chemical defenses.
- ☐ Define phagocytosis. Name four types of phagocytic leukocytes.
- ☐ Explain how phagocytic leukocytes recognize microbes.
- ☐ Describe the inflammation response, including how it is triggered.
- ☐ Describe what occurs during the condition known as septic shock.

### How Acquired Immunity Arises

- ☐ Distinguish between:
  - a. antigens and antibodies
  - b. antigen and epitope
  - c. B lymphocytes and T lymphocytes
  - d. antibodies and B cell receptors
  - e. primary and secondary immune responses
- ☐ Briefly summarize the basic facts of acquired immunity.
- ☐ Explain how B lymphocytes and T lymphocytes recognize specific antigens.
- ☐ Distinguish between effector cells and memory cells.
- ☐ Describe the difference between the primary and secondary immune response.

### Acquired Immune System Defenses

- ☐ Distinguish between
  - a. humoral and cell-mediated response
  - b. active and passive immunity
- ☐ Describe the roles of helper T lymphocytes in both humoral and cell-mediated immunity.
- ☐ Describe the functions of the proteins CD4 and CD8.
- ☐ Describe the production and uses of monoclonal antibodies.

### Immunity in Health and Disease

- ☐ Describe an allergic reaction.
- ☐ Explain what causes anaphylactic shock and how it can be treated.
- ☐ Describe the term autoimmune disease. List and briefly explain three autoimmune disorders.
- ☐ Distinguish between inborn and acquired immunodeficiency.

# Chapter 43 Immune System Study Guide

**Martha R. Taylor**



## **Chapter 43 Immune System Study Guide:**

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**Study Guide to Accompany Biology, the Science of Life, Third Edition** W. J. Leverich, 1991

**Study Guide and Procedure Checklist Manual for Kinn's The Medical Assistant - E-Book** Brigitte Niedzwiecki, Julie Pepper, 2022-09-08 Designed to support the trusted content in Kinn's The Medical Assistant 15th Edition this study guide is an essential review and practice companion to reinforce key concepts encourage critical thinking and help you apply medical assisting content This robust companion guide offers a wide range of activities to strengthen your understanding of common administrative and clinical skills including certification preparation questions a review of medical terminology and anatomy and application exercises Trusted for more than 65 years as a key part of the journey from classroom to career it also features competency checklists to accurately measure your progress and performance from day one until you land your first job as a medical assistant Comprehensive coverage of all administrative and clinical procedures complies with accreditation requirements Approximately 190 step by step procedure checklists enable you to assess and track your performance for every procedure included in the textbook Chapter by chapter correlation with the textbook allows you to easily follow core textbook competencies Matching and acronym activities reinforce your understanding of medical terminology anatomy and physiology and chapter vocabulary Short answer and fill in the blank exercises strengthen your comprehension of key concepts Multiple choice questions help you prepare for classroom and board exams Workplace application exercises promote critical thinking and job readiness before you enter practice Internet exercises offer ideas for expanded and project based learning NEW Content aligns to 2022 Medical Assisting educational competencies NEW Advanced Clinical Skills unit features three new chapters on IV therapy radiology basics and radiology positioning to support expanded medical assisting functions NEW Coverage of telemedicine enhanced infection control related to COVID 19 and catheterization NEW Procedures address IV therapy limited scope radiography applying a sling and coaching for stool collection UPDATED Coverage of administrative functions includes insurance coding privacy security and more EXPANDED Information on physical medicine and rehabilitation EXPANDED Content on specimen collection including wound swab nasal and nasopharyngeal specimen collections

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**Biological Inquiry** Neil A. Campbell, Margaret Waterman, Ethel Stanley, Jane B. Reece, 2007-12 This workbook offers an investigative case study for each unit of the book Each case study requires students to synthesize information from one unit of the text and apply that knowledge to a real world scenario as they evaluate new information analyze evidence plot data or seek explanations This workbook includes two new case studies one on avian influenza and one on hedgehog developmental pathways

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*Study Guide* George Karleskint, 1991

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solving skills A variety of questions including labeling and concept mapping are keyed to every learning objective in the textbook and are organized around the same 3 level learning system      *Thomson Delmar Learning's Comprehensive Medical Assisting* Wilburta Q. Lindh, 2006 This third edition is the most comprehensive and dynamic learning package on the market for Medical Assisting It boasts the most skills and procedures covered and includes key areas either not found or lightly touched on in other books such as History of Medicine Professional Procedures coverage of OSHA and CLIA and transcription All ABHES and CAAHEP competencies are covered The new edition maps to the latest CAAHEP Standards and Guidelines for Medical Assisting Educational programs and the ABHES Program Requirements and Curriculum Comprehensive Medical Assisting Administrative and Clinical Competencies provides more opportunity for critical thinking through case studies critical thinking questions scenarios and features tying to both of Delmar's Medical Assisting DVD series The book also emphasizes softer skills such as professionalism and practical skills including how to comply with HIPAA regulations and deal with privacy issues on the job Delmar is a part of Cengage Learning

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### Table of Contents Chapter 43 Immune System Study Guide

1. Understanding the eBook Chapter 43 Immune System Study Guide
  - The Rise of Digital Reading Chapter 43 Immune System Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 43 Immune System Study Guide
  - 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 Chapter 43 Immune System Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 43 Immune System Study Guide
  - Personalized Recommendations
  - Chapter 43 Immune System Study Guide User Reviews and Ratings
  - Chapter 43 Immune System Study Guide and Bestseller Lists
5. Accessing Chapter 43 Immune System Study Guide Free and Paid eBooks

- Chapter 43 Immune System Study Guide Public Domain eBooks
- Chapter 43 Immune System Study Guide eBook Subscription Services
- Chapter 43 Immune System Study Guide Budget-Friendly Options
- 6. Navigating Chapter 43 Immune System Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 43 Immune System Study Guide Compatibility with Devices
  - Chapter 43 Immune System Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 43 Immune System Study Guide
  - Highlighting and Note-Taking Chapter 43 Immune System Study Guide
  - Interactive Elements Chapter 43 Immune System Study Guide
- 8. Staying Engaged with Chapter 43 Immune System Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 43 Immune System Study Guide
- 9. Balancing eBooks and Physical Books Chapter 43 Immune System Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 43 Immune System Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 43 Immune System Study Guide
  - Setting Reading Goals Chapter 43 Immune System Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 43 Immune System Study Guide
  - Fact-Checking eBook Content of Chapter 43 Immune System Study Guide
  - 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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