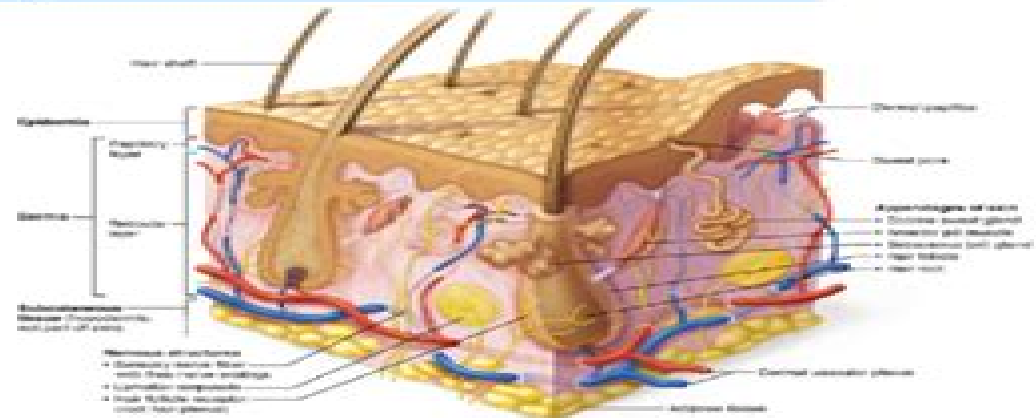


CHAPTER 5

The Integumentary System

5.1 – THE SKIN CONSISTS OF 2 LAYERS: THE EPIDERMIS AND DERMIS

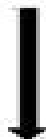
- 2 layers:
 1. **Epidermis:** Composed of epithelial cells; outermost protective shield of the body
 - Epi = Upon
 2. **Dermis:** Underlying bulk of skin; tough, leathery layer composed mostly of dense connective tissue
 - Highly vascularized
- Nutrients reach epidermis by diffusing through tissue fluid via BV in the dermis
- **Hypodermis (Subcutaneous) Tissue:** Subcutaneous tissue deep to skin
 - Not part of skin; also known as superficial fascia
 - Stores adipose tissue; shock absorber and insulator (↓ heat loss)
 - Anchors the skin to the underlying structures
- Sliding skin protects by ensuring many blows bounce off the skin



5.2 – THE EPIDERMIS IS A KERATINIZED STRATIFIED SQUAMOUS EPITHELIUM

- There are 4 or 5 layers of the epidermis:
 - (i) Stratum Corneum
 - (ii) Stratum Lucideum
 - (iii) Stratum Granulosum
 - (iv) Stratum Spinosum
 - (v) Stratum Basale
- 4 distinct cells:
 - (i) Keratinocytes
 - (ii) Melanocytes
 - (iii) Dendritic (Langerhans) Cells
 - (iv) Tactile (Merkel) Cells

SUPERFICIAL



DEEP

Chapter 5 Integumentary System Answers

Gerard J. Tortora, Bryan Derrickson



Chapter 5 Integumentary System Answers:

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Study Guide for The Anatomy and Physiology Learning System Edith Applegate, 2010-03-30 Designed to accompany The Anatomy and Physiology Learning System 4th Edition by Edith Applegate this study guide helps you learn and review basic A P concepts Each chapter emphasizes medical terminology with a set of key terms word parts clinical terms and abbreviations and then adds a variety of fun filled learning exercises review questions a quiz and a word puzzle The study guide corresponds to the textbook chapter for chapter Chapter learning objectives help you focus on the most important material Key concepts are defined on the first page of each chapter in the workbook Learning exercises for each chapter include short answer matching and diagrams to label and color Self quizzes allow you to measure your progress and understanding Fun and Games features end each chapter with a variety of engaging puzzles covering words and concepts A chapter summary provides a brief review of each chapter A chapter review provides questions for reinforcement and review of the concepts in each chapter

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Instructors Resource Guide Elaine N. Marieb,Barbara Stewart,2001-11-02

Instructor's Manual for Principles of Anatomy and Physiology Gerard J. Tortora,Nicholas Peter Anagnostakos,1978

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Table of Contents Chapter 5 Integumentary System Answers

1. Understanding the eBook Chapter 5 Integumentary System Answers
 - The Rise of Digital Reading Chapter 5 Integumentary System Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 5 Integumentary System 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 Chapter 5 Integumentary System Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 5 Integumentary System Answers
 - Personalized Recommendations
 - Chapter 5 Integumentary System Answers User Reviews and Ratings

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