

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

SUPERFICIAL



DEEP

- 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

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Kathleen Armour



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Table of Contents Anatomy And Physiology Integumentary System Packet

1. Understanding the eBook Anatomy And Physiology Integumentary System Packet
 - The Rise of Digital Reading Anatomy And Physiology Integumentary System Packet
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy And Physiology Integumentary System Packet
 - 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 Anatomy And Physiology Integumentary System Packet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy And Physiology Integumentary System Packet
 - Personalized Recommendations
 - Anatomy And Physiology Integumentary System Packet User Reviews and Ratings
 - Anatomy And Physiology Integumentary System Packet and Bestseller Lists
5. Accessing Anatomy And Physiology Integumentary System Packet Free and Paid eBooks

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