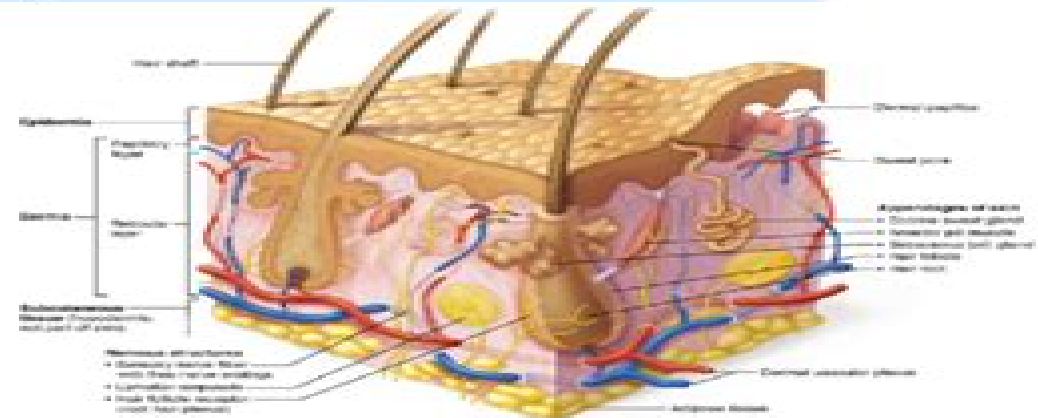


CHAPTER 5

The Integumentary System

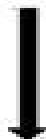
5.1 – THE SKIN CONSISTS OF 2 LAYERS: THE EPIDERMIS AND DERMIS

- 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

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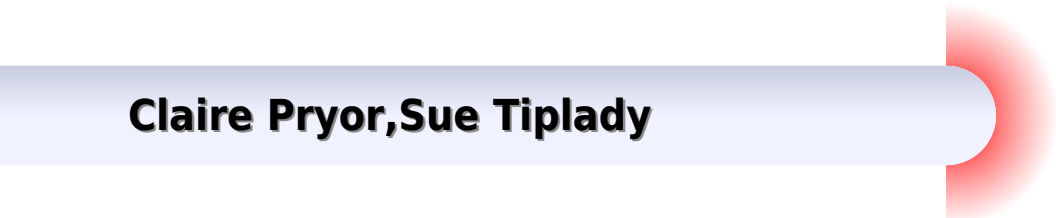


DEEP

- 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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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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web the relative electronegativities of the bonded atoms is $\text{H} < \text{C} < \text{Cl}$ and so the bond moments all point toward the Cl end of the molecule and sum to yield a considerable dipole moment the molecules are relatively polar for molecules of high symmetry such as BF_3 trigonal planar CH_4 tetrahedral PF_5 trigonal bipyramidal and SF_6

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