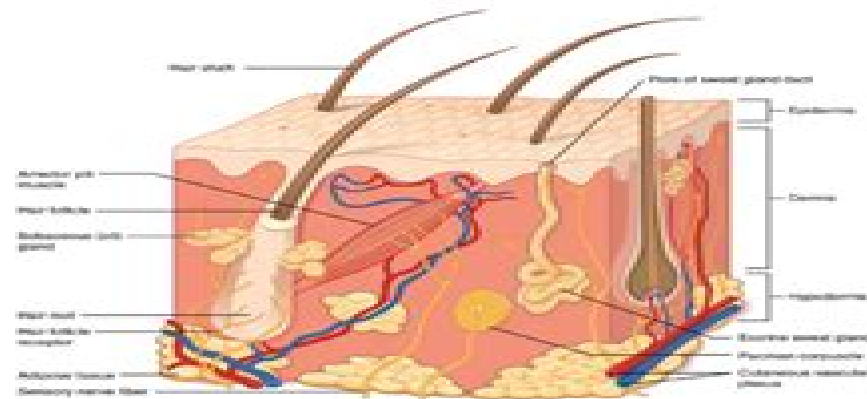


Chapter 4- The Integumentary System

Section 1: Functional Anatomy of the Skin

Integumentary system, or the integument, has two major components.

- **Cutaneous membrane**, or skin, including the epidermis and papillary layer of the dermis.
- **Accessory structures** including the hair, nails, and a variety of exocrine glands.



- **Cutaneous Membrane:**
 - The Epidermis
 - Dermis
 - Papillary layer
 - Reticular layer
- Hypodermis
- Accessory Structures
- Artery
- Vein
- Cutaneous Plexus

Functions of the Integumentary System:

- Protect underlying tissues and organs against impact abrasion, fluid loss, and chemical attack
- Excrete salt, water, and organic wastes by integumentary glands
- Maintain normal body temperature through either insulation or evaporative cooling, as needed
- Produces Melanin, which protects underlying rises from ultraviolet radiation
- Produces keratin, which protects against abrasion and repels water
- Synthesize vitamin D3
- Store lipids in the dermis and in adipose tissue in the hypodermis
- Detect touch, pressure, and temperature stimuli
- Coordinate immune response to pathogens and skin cancers

The epidermis is composed of layers with various functions.

- Epidermis is dominated by keratinocytes
 - These cells form several layers or strata
- Deeper layers of the epidermis form epidermal ridges, adjacent to dermal papillae
 - **Dermal papillae** a nipple shaped mound creating ridges or dermal projections
 - Greatly increases the surface area for attachment, binding the epidermis to the dermis

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laws and regulations dealing with organ transplantation Also included are the texts of some of the key international and European declarations and statements on the subject Most of the materials that appear in the book were originally published in the WHO s International Digest of Health Legislation but have never been collected in one volume before This book will be useful to parliamentarians health policy makers surgeons and other health professionals involved in transplantation transplant coordinators ethicists and others interested in in depth information on how different governments and institutions have responded to the considerable ethical legal and policy challenges posed by this important branch of curative medicine

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Table of Contents Section 32 The Integumentary System Answers

1. Understanding the eBook Section 32 The Integumentary System Answers
 - The Rise of Digital Reading Section 32 The Integumentary System Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Section 32 The 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 Section 32 The Integumentary System Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Section 32 The Integumentary System Answers
 - Personalized Recommendations
 - Section 32 The Integumentary System Answers User Reviews and Ratings
 - Section 32 The Integumentary System Answers and Bestseller Lists

5. Accessing Section 32 The Integumentary System Answers Free and Paid eBooks
 - Section 32 The Integumentary System Answers Public Domain eBooks
 - Section 32 The Integumentary System Answers eBook Subscription Services
 - Section 32 The Integumentary System Answers Budget-Friendly Options
6. Navigating Section 32 The Integumentary System Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Section 32 The Integumentary System Answers Compatibility with Devices
 - Section 32 The Integumentary System Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Section 32 The Integumentary System Answers
 - Highlighting and Note-Taking Section 32 The Integumentary System Answers
 - Interactive Elements Section 32 The Integumentary System Answers
8. Staying Engaged with Section 32 The Integumentary System Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Section 32 The Integumentary System Answers
9. Balancing eBooks and Physical Books Section 32 The Integumentary System Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Section 32 The Integumentary System Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Section 32 The Integumentary System Answers
 - Setting Reading Goals Section 32 The Integumentary System Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Section 32 The Integumentary System Answers
 - Fact-Checking eBook Content of Section 32 The 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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