

# INTERGUMENTARY SYSTEM

## INTEGUMENTARY SYSTEM

- consists of the skin and its accessory organs hair, nails, and cutaneous glands
- Inspection of the skin, hair, and nails is significant part of a physical exam

### THE SKIN

- The body's largest and heaviest organ
  - covers area of 1.5 -2.0 m<sup>2</sup>
  - 15 % of body weight
- Consists of two layers:
  - >**epidermis** - stratified squamous epithelium
  - >**dermis** - connective tissue layer
  - >**Hypodermis** - another connective tissue layer below the dermis
    - Most skin is 1 - 2 mm thick
    - Ranges from 0.5 mm (eyelids) to 6 mm between shoulder blades

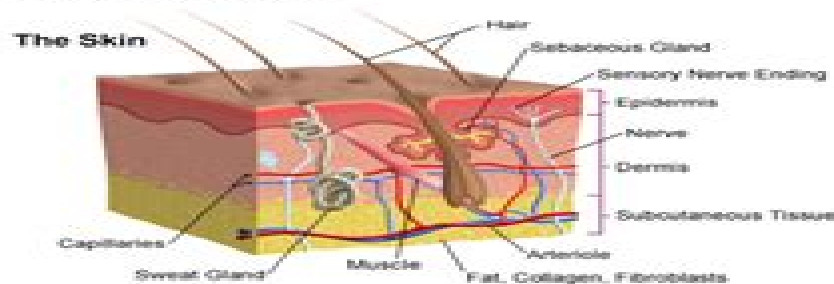
Skin is the most vulnerable organ exposed to radiation, trauma, infection, and ~~injurious chemicals~~

**Thick skin** - on palms, sole, corresponding surfaces on fingers and toes

- has sweat glands; no hair follicles or sebaceous (oil) glands
- epidermis 0.5 mm thick

**Thin skin** - covers rest of the body epidermis about 0.1 mm thick possesses hair follicles, sebaceous glands and sweat glands

### SKIN STRUCTURE



### FUNCTIONS OF SKIN

1. **Protection** - provides protection against abrasion and UV light
  - also prevents microorganism from entering the body & reduces water loss, thus preventing dehydration
2. **Vitamin D synthesis/ production** - when exposed to UV light, the skin produces a molecule that can be transformed into Vit. D, an important regulator of calcium homeostasis
3. **Sensation** - sensory receptors that detect heat, cold, touch, pressure and pain.
4. **Thermoregulation** - help regulate body temperature
5. **Nonverbal communication** - acne, birthmark, or scar
6. **Transdermal absorption** - administration of certain drugs steadily through thin skin - adhesive patches
7. **Excretion** - small amount of waste products are lost through the skin & in gland secretions

### THE EPIDERMIS

# Questions And Answers On Intergumentary System And Body Membranes

**LL Leslie**



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## **Table of Contents Questions And Answers On Intergumentary System And Body Membranes**

1. Understanding the eBook Questions And Answers On Intergumentary System And Body Membranes
  - The Rise of Digital Reading Questions And Answers On Intergumentary System And Body Membranes
  - Advantages of eBooks Over Traditional Books
2. Identifying Questions And Answers On Intergumentary System And Body Membranes
  - 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 Questions And Answers On Intergumentary System And Body Membranes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Questions And Answers On Intergumentary System And Body Membranes
  - Personalized Recommendations
  - Questions And Answers On Intergumentary System And Body Membranes User Reviews and Ratings
  - Questions And Answers On Intergumentary System And Body Membranes and Bestseller Lists
5. Accessing Questions And Answers On Intergumentary System And Body Membranes Free and Paid eBooks
  - Questions And Answers On Intergumentary System And Body Membranes Public Domain eBooks
  - Questions And Answers On Intergumentary System And Body Membranes eBook Subscription Services
  - Questions And Answers On Intergumentary System And Body Membranes Budget-Friendly Options

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