

## Lab 3: Integumentary System

### Learning outcomes of the lab exercises:

1. Locate on microscope slides and classroom models the major structures of the skin.
2. Describe the major functions of the skin.
3. Distinguish the locations and components of the epidermis, dermis and hypodermis.
4. Identify and sketch regions of the skin and associated accessory structures such as hair and glands that were observed on the microscope slides.

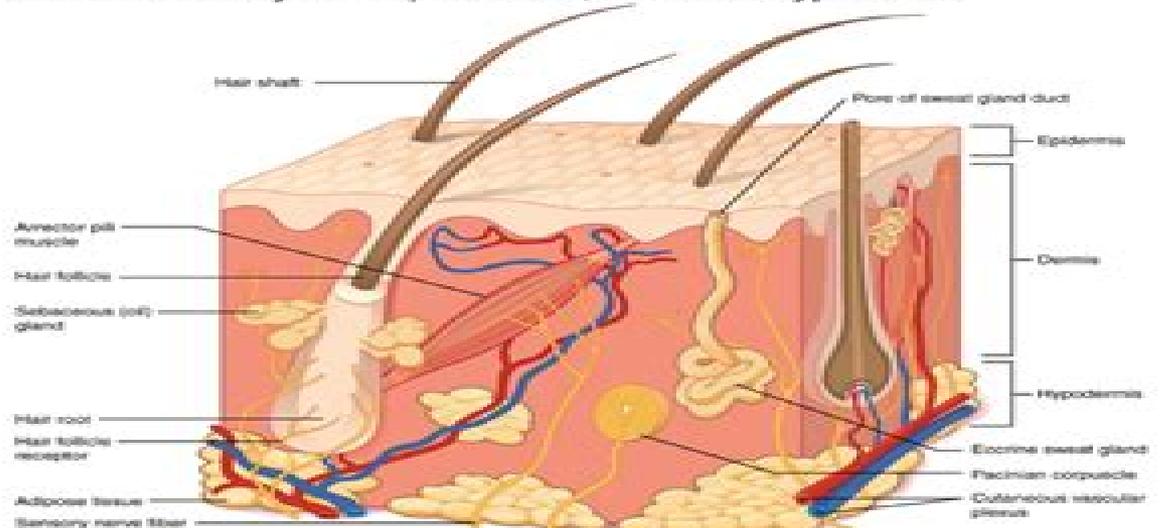
"Although you may not typically think of the skin as an organ, it is in fact made of tissues that work together as a single structure to perform unique and critical functions. The skin and its accessory structures make up the integumentary system, which provides the body with overall protection... It also has numerous sensory, and autonomic and sympathetic nerve fibers ensuring communication to and from the brain."

*OpenStax A&P pg. 180*

### I. **SKIN AND ITS TISSUES (Cutaneous Membrane)**

#### A. **General Structure:**

1. Two distinct regions or layers compose the skin:
  - a. **Epidermis** = outermost layer;
    - keratinized stratified squamous ET.
  - b. **Dermis** = inner layer;
    - glandular epithelium (sweat, sebaceous glands),
    - dense irregular CT (collagen),
    - smooth muscle tissue (arrector pili muscles),
    - nervous tissue (Meissner's & Pacinian Corpuscles), and
    - hair follicles and blood vessels
2. **Subcutaneous layer** = adipose tissue; also called **hypodermis**



# The Integumentary System Lab Answers

**R Sandford**



**The Integumentary System Lab Answers:**

## Reviewing **The Integumentary System Lab Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**The Integumentary System Lab Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **The Integumentary System Lab Answers Introduction**

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