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EXERCISE

The Integumentary System

Learning Outcomes

- ▶ List several important functions of the skin, or integumentary system.
- ▶ Identify the following skin structures on a model, image, or microscope slide: epidermis, dermis (papillary and reticular layers), hair follicles and hair, sebaceous glands, and sweat glands.
- ▶ Name and describe the layers of the epidermis.
- ▶ List the factors that determine skin color, and describe the function of melanin.
- ▶ Identify the major regions of nails.
- ▶ Describe the distribution and function of hairs, sebaceous glands, and sweat glands.
- ▶ Discuss the difference between eccrine and apocrine sweat glands.
- ▶ Compare and contrast the structure and functions of the epidermis and the dermis.

Pre-Lab Quiz



Instructors may assign these and other Pre-Lab Quiz questions using **Mastering A&P™**

1. All the following are functions of the skin except:
 - a. excretion of body wastes
 - b. insulation
 - c. protection from mechanical damage
 - d. site of vitamin A synthesis
2. The most superficial layer of the epidermis is the:
 - a. stratum basale
 - b. stratum spinosum
 - c. stratum granulosum
 - d. stratum corneum
3. These cells produce a brown-to-black pigment that colors the skin and protects DNA from ultraviolet radiation damage. The cells are:
 - a. dendritic cells
 - b. keratinocytes
 - c. melanocytes
 - d. tactile cells
4. The portion of a hair that projects from the surface of the skin is known as the:
 - a. bulb
 - b. matrix
 - c. root
 - d. shaft
5. Circle the correct underlined term. The ducts of sebaceous / sweat glands usually empty into a hair follicle but may also open directly on the skin surface.

The **integument** is considered an organ system because it consists of multiple organs, the **skin** and its accessory organs. It is much more than an external body covering; architecturally, the skin is a marvel. It is tough yet pliable, a characteristic that enables it to withstand constant insult from outside agents.

The skin has many functions, most concerned with protection. It insulates and cushions the underlying body tissues and protects the entire body from abrasion, exposure to harmful chemicals, temperature extremes, and bacterial invasion. The hardened uppermost layer of the skin prevents water loss from the body surface.

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Instructors may assign new Building Vocabulary coaching activities, Pre-Lab Quiz questions, Art Labeling activities, Practice Anatomy Lab Practical questions (PAL) for Histology of the Integumentary System, and more using the **Mastering A&P™** Item Library.

Materials

- ▶ Skin model (three-dimensional, if available)
- ▶ Compound microscope
- ▶ Prepared slide of human scalp
- ▶ Prepared slide of skin of palm or sole
- ▶ Sheet of 20# bond paper ruled to mark off cm² areas
- ▶ Scissors
- ▶ Povidone-iodine swabs, or Lugol's iodine and cotton swabs
- ▶ Adhesive tape
- ▶ Disposable gloves
- ▶ Data collection sheet for plotting distribution of sweat glands
- ▶ Forelon® fingerprint pad or portable inking foils
- ▶ Ink cleaner towelettes
- ▶ Index cards (4 in. x 6 in.)
- ▶ Magnifying glasses

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Exercises in Oral Radiography Techniques Evelyn Thomson, 2007 This simply written workbook style lab manual provides 14 concrete practical exercises in oral radiographic procedures and interpretation that challenge readers to link theory with clinical practice Concrete practical exercises with explicit directions Self paced broadly written laboratory exercises Simple line drawings photographs radiographs and other illustrations For dental hygienists and assistants

Instructor's Solutions Manual to Accompany Statistics in Practice Ronald L. Shubert, 1998 **Intermediate Algebra with Applications and Visualization** Gary K. Rockswold, Terry A. Krieger, 2009 **KEY MESSAGE** Gary Rockswold and Terry Krieger focus on teaching algebra in context giving readers realistic and convincing answers to the perennial question When will I ever use this The authors consistent use of real data graphs and tables throughout the examples and exercise sets gives meaning to the numbers and equations as readers encounter them This new edition further enhances Rockswold and Krieger's focus on math in the real world with new features and updated applications to engage today's readers **KEY TOPICS** Real Numbers and Algebra Linear Functions and Models Linear Equations and Inequalities Systems of Linear Equations Polynomial Expressions and Functions Rational Expressions and Functions Radical Expressions and Functions Quadratic Functions and Equations Exponential and Logarithmic Functions Conic Sections Sequences and Series **MARKET** For all readers interested in algebra **Physical Fitness/sports Medicine**, 1987 Consists of citations selected from those contained in the National Library of Medicine's Medical Literature Analysis and Retrieval System **C++** Paul J. Deitel, Harvey M. Deitel, 2010 **KEY BENEFIT** This comprehensive best seller is aimed at readers with little or no programming experience It teaches by presenting the concepts in the context of full working programs and takes an early objects approach The authors emphasize achieving program clarity through structured and object oriented programming software reuse and component oriented software construction **KEY TOPICS** Introduction to Computers the Internet and World Wide Web Introduction to C Programming Introduction to Classes and Objects Control Statements Part 1 Control Statements Part 2 Functions and an Introduction to Recursion Arrays and Vectors Pointers and Pointer Based Strings Classes A Deeper Look Part 1 Classes A Deeper Look Part 2 Object Oriented Programming Inheritance Object Oriented Programming Polymorphism Optional ATM Case Study Part 1 Object Oriented Design with the UML Optional ATM Case Study Part 2 Implementing an Object Oriented Design Exception Handling Templates Operator Overloading String and Array Objects String Processing with Class string Stream Input Output File and String Stream Processing Searching and Sorting Data Structures Standard Template Library STL Bits Characters C Strings and structs Game Programming with Ogre Boost Libraries Technical Report 1 and C 0x Other Topics Operator Precedence and Associativity Chart ASCII Character Set Fundamental Types Number Systems C Legacy Code Topics Preprocessor UML 2 Additional Diagram Types Using the Visual Studio reg 2008 Debugger Using the GNU trade C Debugger **MARKET** A useful reference for programmers **Books in Print Supplement**, 2002

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Prentice Hall Science Explorer Probeware Lab Manual 2005c Michael J. Padilla, Ioannis Miaoulis, Martha
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