NAME _____ LAB TIME/DATE _____

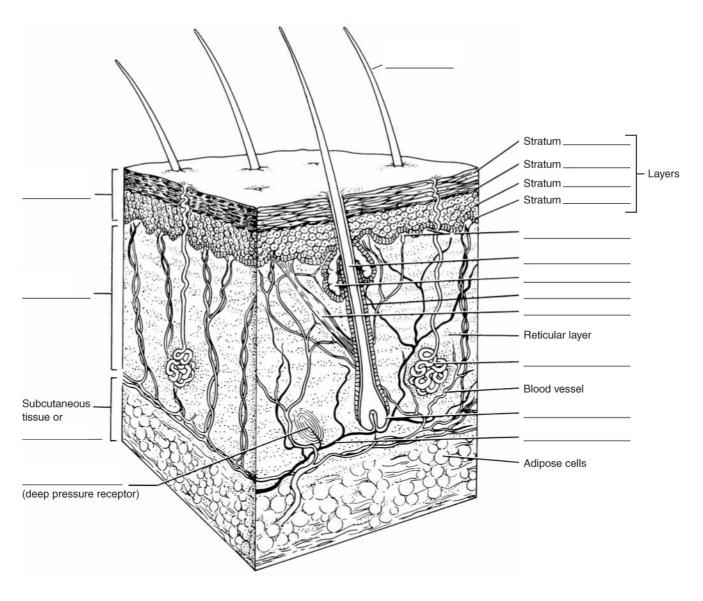
REVIEW	SHEET	
	EVEDOLEE	

The Integumentary System

В

38	asic Structure of the Skin
ι.	Complete the following statements by writing the appropriate word or phrase on the correspondingly numbered blank:
	The two basic tissues of which the skin is composed are dense irregular connective tissue, which makes up the dermis, and 1, which forms the epidermis. The tough water-repellent protein found in the epidermal cells is called 2. The pigments melanin and 3 contribute to skin color. A localized concentration of melanin is referred to as a 4.
2.	Four protective functions of the skin are
	a c b d
3.	Using the key choices, choose all responses that apply to the following descriptions.
3.	Using the key choices, choose all responses that apply to the following descriptions. Key: a. stratum basale d. stratum lucidum g. reticular layer b. stratum corneum e. stratum spinosum h. epidermis as a whole c. stratum granulosum f. papillary layer i. dermis as a whole l. translucent cells in thick skin containing keratin fibrils 2. dead cells 3. dermal layer responsible for fingerprints 4. vascular region 5. major skin area that produces derivatives (nails and hair) 6. epidermal region exhibiting the most rapid cell division 7. scalelike dead cells, full of keratin, that constantly slough off 8. mitotic cells filled with intermediate filaments 9. has abundant elastic and collagenic fibers 10. location of melanocytes and Merkel cells 11. area where weblike pre-keratin filaments first appear
	12 region of areolar connective tissue

4. Label the skin structures and areas indicated in the accompanying diagram of thin skin. Then, complete the statements that follow.



- a. _____ granules extruded from the keratinocytes prevent water loss by diffusion through the epidermis.
- b. Fibers in the dermis are produced by ______.
- c. Glands that respond to rising androgen levels are the ______ glands.
- d. Phagocytic cells that occupy the epidermis are called ______.
- e. A unique touch receptor formed from a stratum basale cell and a nerve fiber is a ______.
- f. What layer is present in thick skin but not in thin skin?
- g. What cell-to-cell structures hold the cells of the stratum spinosum tightly together?

5.	What substance is manufactured in the skin that plays a role in calcium absorption elsewhere in the body?			
6.	List the sensory receptors found in the dermis of the skin			
7.	A nurse tells a doctor that a patient is cyanotic. Define <i>cyanosis</i> .			
	What does its presence imply?			
8.	What is a bedsore (decubitus ulcer) ?			
	Why does it occur?			
	ccessory Organs of the Skin			
9.	Match the key choices with the appropriate descriptions.			
	 Key: a. arrector pili b. cutaneous receptors c. hair d. hair follicle g. sweat gland—apocrine h. sweat gland—eccrine f. sebaceous glands 			
	1. produces an accumulation of oily material that is known as a blackhead			
	2. tiny muscles, attached to hair follicles, that pull the hair upright during fright or cold			
	3. perspiration glands with a role in temperature control			
	4. sheath formed of both epithelial and connective tissues			
	5. less numerous type of perspiration-producing gland; found mainly in the pubic and axillary regions			
	6. found everywhere on the body except the palms of hands and soles of feet			
	7. primarily dead/keratinized cells			
	8. specialized nerve endings that respond to temperature, touch, etc.			
	9. secretes a lubricant for hair and skin			
	10. "sports" a lunula and a cuticle			

10.	Describe two integumentary system mechanisms that help in regulating body temperature.		
11.	Several structures or skin regions are listed below. Identify each by matching its letter with the appropriate area on the figure.		
a.	adipose cells		
b.	dermis		
c.	epidermis epidermis		
d.	hair follicle		
e.	hair shaft		
f.	sloughing stratum corneum cells		
	The state of the s		
Ρl	otting the Distribution of Sweat Glands		
	With what substance in the bond paper does the iodine painted on the skin react?		
13.	Based on class data, which skin area—the forearm or palm of hand—has more sweat glands?		
	Was this an expected result? Explain		
	Which other body areas would, if tested, prove to have a high density of sweat glands? <u>Face, axillae</u>		
14.	What organ system controls the activity of the eccrine sweat glands?		
D.	rmography. Fingerprinting		
	ermography: Fingerprinting Why can fingerprints be used to identify individuals?		
13.	why can interprints be used to identify individuals?		
16.	Name the three common fingerprint patterns.		
10.			