Name

Chapter 5- Computer Lab The Integumentary System

Using the given website, http://www.zoology.ubc.ca/~biomania/tutorial/skin/outline.htm, answer the questions and complete the statements.

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Introduction and Objectives

1 The ______ is one of the largest and heaviest organ of the body.

2 The two layers of the skin are the and the .

3 List the 4 appendages (accessory organs) of the skin.

4 Another name for subcutaneous tissue is ______.

5 List the 7 functions of the integumentary system.

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The Skin

The Epidermis

- 1 What type of tissue is the epidermis? _____
- 2 List 2 functions of the protein keratin.
- 3 List the 4 types of epidermal cells.
- 4 What is the function of a keratinocyte?
- 5 What are Merkel Cells?
- 6 What do melanocytes produce?
- 7 What type of cell is a Langerhans cell?

You will only need to know about the stratum basale and stratum corneum of the epidermis.

8 The ______ is the deepest epidermal layer.

- 9 What two types of epithelial cells will you find in the stratum basale?
- 10 The 3 types of cells found in the stratum basale are ______, that produce keratin, ______, that produce the pigment melanin, and ______ or sensory receptors.
- 11 What is the function of the pigment melanin?
- 12 The _____ is the outermost epidermal layer.
- 13 What type of epithelial cell would you find in the stratum corneum?
- 14 What does keratinized mean?

The Dermis

1 List the 7 types of appendages (accessory organs) found within the dermis.

2 _____is the outer layer closest to the epidermis.

3 What type of connective tissue is the papillary layer composed of?

4 List the 4 types of appendates (accessory organs) found within the papillary layer.

- 5 ______is the deeper layer and the thickest of the dermis.
- 6 What type of connective tissue is the reticular layer composed of?
- 7 List the two types of fibers found in the reticular layer.
- 8 List the 5 types of appendages (accessory organs) found within the reticular layer.

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The Skin Appendages

<u>Hair</u>

- 1 The primary function of hairs is ______.
- 2 Hair is made of dead _____ cells.
- 3 The two areas of hair is the _____ and the _____

4	What is the distinguishing characteristic that determines whether the part of hair is the shaft or the root?
5	What is the shape of the shafts of your hair?
6	The root of a hair is contained inside a bag called the
7	As the older hair cells are pushed upward by the newer hair cells produced, they become increasingly and die.
8	Associated with each hair follicle is a tiny band of smooth muscle: the
9	Contraction of the arrector pili muscles causes
<u>Set</u>	paceous Glands
1	Sebaceous glands are
2	Sebaceous glands secrete
3	Where are oil glands <u>not</u> found?
<u>Sw</u>	eat Glands
1	are the most common type of sweat gland.
2	What is sweat?
3	What is the function of sweat?
4	areas and of the areola of the breasts.
<u>Nai</u>	<u>ls</u>
1	are hard plates of tightly packed keratinized cells.
2	List the 3 regions of the nail.
3	The: portion of the nail that is visible.
4	The nail body rests upon the
5	The
6	The fold of skin (or nail fold).
7	The site of nail growth is the that is found beneath the nail root.

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The Hypodermis

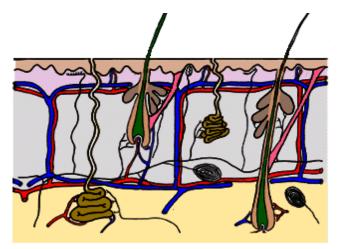
- 1 Is the hypodermis part of the skin?
- 2 What types of connective tissue is the hypodermis composed of?

3 What is the function of the hypodermis?

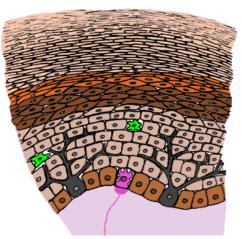
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Click on Quiz #1

Using the diagram below, label the epidermis, dermis, hypodermis, hair, sebaceous gland, Pacinian corpuscle, sweat glands, Meissner corpuscle, free nerve endings



Using the diagram below, label the epidermis, dermis, keratinocyte, Langerhans cell, melanocyte, melanin Merkel cell



Using the diagram below, label the shaft, root, follicle, sebaceous gland, arrector pili muscle

