## **READING NOTES CHAPTER 6: INTEGUMENTARY SYSTEM (SKIN)**

 Name

 Period

 Due date

## **Introduction (p. 180)**

Two or more types of tissues grouped together working together for a function are called an \_\_\_\_\_. Since the skin is composed of several types of tissues, it definitely qualifies as one. It is vital in maintaining \_\_\_\_\_\_. It isn't enough to just say our skin **protects us**, for it does so in many ways:

- 1) It prevents many substances, including microorganisms, from

.

- 2) It retards \_\_\_\_\_ loss.
  3) It regulates body \_\_\_\_\_.
  4) It houses \_\_\_\_\_ receptors.
  5) It contains \_\_\_\_\_ cells for initiating immune response.
  6) It \_\_\_\_\_ small quantities of waste.
  7) It muchases small quantities of solutions.
- 7) It produces small quantities of vitamin \_\_\_\_\_.

## Skin and its tissues

There are many layers to the skin system. Each layer is specialized for different functions. Be sure to read the blue inset boxes (ways to transmit medicines through the skin, bed sores, and psoriasis) on pages 181-183!

**Epidermis** – for each layer found within, list its primary function (what are the keratinocytes doing in each layer) and other specialized cells found there.

Stratum basale (germanitivum) Melanocytes **Merkel cells** Stratum spinosum Langerhans (dendritic) cells (p. 180 introduction) Desmosomes Stratum granulosum **Stratum lucidum** Stratum corneum

The epidermis ties to the underlying layer of the dermis by a basement membrane. Separations between these layers results in a blister forming, which is interstitial fluid that rushes in to stabilize the separation and promote healing.

> Papillary layer: Fibers: Meissner's (tactile) Corpuscles

Reticular layer: Fibers: Pacinian (lamellated) Corpuscles Ruffini Corspuscles

Skin coloration (pages 184 -185) – is determined by heredity but is a function of <u>hemoglobin, carotene, and melanin</u> amounts. For each of the disorders, list the cause:

## Albinism:

Tan skin:

Pink/red skin:

**Cyanosis:** 

Paled skin:

Jaundice (see inset box on p. 185):

Skin cancer (inset box on p. 184):

Indicators of skin cancer

A: B: C: D: E: Types of glands in skin (pages 188 - 190) – for each gland, list what the primary function is along with its location/layer.

Sebaceous:

Eccrine (sweat):

**Apocrine:** 

**Ceruminous:** 

Mammary:

Burn classification (pages 192 - 194) – for each degree of burn, describe the level of tissues affected as well as level of severity for treatment.

First-degree (superficial partial-thickness):

Second-degree (deep partial-thickness):

Third-degree (full-thickness):