**Integumentary System Guided Notes**

**Body Membranes:**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (skin and \_\_\_\_\_\_\_\_\_\_\_\_)

2. Serosa

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Body Membranes: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- cutaneous (\_\_\_\_\_\_\_\_\_) and mucosa

Epithelial and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-\_\_\_\_\_\_\_\_\_\_\_\_\_\_- parietal and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Connective Tissue- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ joints

**Skin**

Skin Functions:

-Protects \_\_\_\_\_\_\_\_\_\_\_\_\_: bumps, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, bacteria, \_\_\_\_\_\_\_\_\_, temperature and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-Aids in body \_\_\_\_\_\_\_\_\_\_ heat control; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ urea and \_\_\_\_\_\_\_\_\_\_\_ acid

-Synthesizes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Structure**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-** epithelial tissue has up to \_\_\_\_\_\_ different types of \_\_\_\_\_\_\_\_\_\_\_\_

Stratum \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (bottom)

-\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the dermis

-well fed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-contains \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: produce \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that shields against \_\_\_\_\_\_\_\_\_ damage

Stratum \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (2nd from bottom)

Stratum \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (3rd from bottom)

Stratum \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (4th from bottom)

Stratum \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_)- 20-30 layers of thick, \_\_\_\_\_\_\_\_\_\_ cells filled with \_\_\_\_\_\_\_\_\_\_\_\_\_

**Dermis**

\_\_\_\_\_\_ region= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ layer with dermal \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that pushes up the epidermis= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Deeper region= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ layer

Dermis contains:

-blood \_\_\_\_\_\_\_\_\_\_\_\_\_\_, sweat and \_\_\_\_\_\_\_\_\_ glands, pressure \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (pacinian), rich \_\_\_\_\_\_\_\_\_\_ supply, hair \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Hypodermis**

-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, adipose tissue \_\_\_\_\_\_\_\_\_\_\_\_ skin

Skin Color-

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ has the same number of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, but some produce more or \_\_\_\_\_\_\_\_\_ melanin. More melanin= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ skin, less melanin= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ skin

Things that Affect Skin Color:

-Melanin- \_\_\_\_\_\_\_\_\_\_\_\_\_\_, red, brown

-Carotene- yellow \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-Hemoglobin- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-Cyanosis- \_\_\_\_\_\_\_\_\_\_ (lack of oxygen)

-Pallor- pale

Jaundice- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_ problems

Bruise- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Glands in Skin

-All exocrine (\_\_\_\_\_\_\_\_\_)

-Sebaceous- \_\_\_\_\_\_\_\_\_, deposit sebum into a duct that opens to a \_\_\_\_\_\_\_\_\_\_\_ follicle or \_\_\_\_\_\_\_\_\_\_\_\_\_

Acne: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_= whitehead 🡪 blackhead 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sudoriferous= \_\_\_\_\_\_\_\_\_\_\_\_ glands (2.5 million)

-Eccrine- all \_\_\_\_\_\_\_\_\_, empty at surface, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ regulation

-Apocrine- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and genital area, form at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, empty into hair follicles. It can mix with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_= \_\_\_\_\_\_\_\_\_\_\_\_

-Ceremonious- earwax (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

Hair

-Fastest growing cells live in the \_\_\_\_\_\_\_\_\_\_\_\_, dead cells live in the \_\_\_\_\_\_\_\_\_\_

-Surface \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_attaches the hair to \_\_\_\_\_\_\_\_\_\_\_\_

-Contracted= skin \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Nails

-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ matrix, the rest is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ bed and free \_\_\_\_\_\_\_\_\_

**Burns**

1st degree- \_\_\_\_\_\_\_\_, swollen, \_\_\_\_\_\_\_\_\_\_\_= epidermis is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2nd degree- red, pain, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, epidermis and upper \_\_\_\_\_\_\_\_\_\_\_\_

3rd degree- gray, white, \_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_ pain, burns the entire \_\_\_\_\_\_\_\_\_\_\_, and is thick

Skin Problems:

-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

- airway obstruction (\_\_\_\_\_\_\_\_\_\_)

-scar \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Rule of \_\_\_\_\_\_\_\_\_\_\_\_

-Calculates the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ burned

Neoplasms

-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ growths. Most are \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (not cancer)

Cancer:

Basal Cell \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-From the stratum \_\_\_\_\_\_\_\_\_\_\_\_\_\_ layer, can be surgically removed- \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Squamous Cell \_\_\_\_\_\_\_\_\_\_\_\_\_\_

-From the stratum \_\_\_\_\_\_\_\_\_\_\_\_\_\_-grows \_\_\_\_\_\_\_\_\_\_\_\_\_ and is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Malignant Melanoma

-from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, can be \_\_\_\_\_\_\_\_\_\_\_\_\_

A-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B- \_\_\_\_\_\_\_\_\_\_\_\_\_ irregularity

C- color

D- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ >6mm (size of an eraser on a pencil)

Infections

-Athlete’s foot- \_\_\_\_\_\_\_\_\_\_\_

-\_\_\_\_\_\_\_\_\_\_-bacterial infection

-Cold sores- Herpes simplex \_\_\_\_\_\_\_\_\_\_\_

-Contact \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- chemical exposure (ex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ ivy)

-Impetigo- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-Psoriasis- \_\_\_\_\_\_\_\_\_ immune

-Striae- \_\_\_\_\_\_\_\_\_\_\_\_ marks

-Flexure lines- \_\_\_\_\_\_\_\_\_\_\_\_\_ over joints

-Blister- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and dermis separate

-Lines of \_\_\_\_\_\_\_\_\_\_\_\_\_\_- \_\_\_\_\_\_\_\_\_\_\_\_\_ lines

**Development**

Fetus: 5-6 months- \_\_\_\_\_\_\_\_\_\_\_ hair, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Birth

-Vernix \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- cheesy covering that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ skin

-Milia- \_\_\_\_\_\_\_\_ glands- \_\_\_\_\_\_\_\_\_\_ spots

Adolescence

-oily \_\_\_\_\_\_\_\_\_\_, oily \_\_\_\_\_\_\_\_\_\_\_\_

-\_\_\_\_\_\_\_\_\_\_

-axillary \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_

Old Age

-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fat decreases

-decreased \_\_\_\_\_\_\_ production

-less \_\_\_\_\_\_\_\_\_\_\_\_\_\_

-less hair

-less \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cells (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

-less \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_