

Chapter 5-6 → 5-8 Independent Notes

Accessory Structures of the Integumentary System

Use this as your guide through the accessory structures of the integumentary system. It is based off the notes we had planned to begin in class on Monday. We will briefly look at the notes, if needed, and will definitely discuss any questions you may have when I return (hopefully Tuesday). As always, use good reading techniques to ensure you are not missing key information, and don't skip over the images.

Hair

1. Describe the basic characteristics of hair.
2. Describe the structure of a hair follicle.
Be sure to identify any tissue types present and where they are located
3. Describe the three steps of hair growth within the follicle.
4. Hair has a more complex structure than it might appear macroscopically. Illustrate a cross section of hair. Identify the three layers of keratinized cells from superficial to deep. Briefly describe each of the layers based on its composition and function.

Name _____ Period _____ Date _____

5. Hair functions differently based on its location on the body. Identify functions of hair on the:

a. Scalp

b. Entrances (*nostrils, external ear, eyelashes*)

c. General

6. Explain how hair color is determined. What is the range of coloration produced?

7. Explain why white hair due to aging occurs.

Name _____ Period _____ Date _____

15. Describe the sweat produced by apocrine sweat glands.

16. Identify the function of apocrine sweat glands.

17. The more abundant of the sweat glands are the merocrine sweat glands. How many are present on the average adult? Identify where on the body they are present in the highest concentrations. In addition, identify onto what location the product is secreted.

18. Describe the sweat produced by merocrine sweat glands.

19. Identify the functions of merocrine sweat glands.

Nails

20. Identify where on the body nails are located.

Name _____ Period _____ Date _____

21. Describe the composition of nails.

22. Identify the functions of nails.

23. Illustrate the cross section of a nail (similar to what is shown in the book). Label the nail body, nail bed, nail root, lunula, and cuticle.

24. Outline the process of nail growth.