Module 3 A & P

Assignment #1 Read pages 61-74

Write the answers on your own paper, not on this sheet.

- 1. Define the following terms:
 - a. Epidermis
 - b. Dermis
 - c. Hypodermis
 - d. Melanoma
 - e. Basal cell carcinoma
 - f. Squamous cell carcinoma
- 2. What are the two layers of skin? Which layer contains keratinized cells? Which layer contains papillae?
- 3. What type of tissue makes up the:
 - a. Epidermis?
 - b. Dermis?
- 4. How do dermal papillae help the epidermal cells?
- 5. Why do some cuts heal quickly with little scarring, while other cut of similar size and depth heal more slowly with more scarring?
- 6. What is the difference between first degree, second degree, and third degree burns?
- 7. How does the hair follicle help heal bad burns?
- 8. What kind of tissue is always present in the hypodermis? What kind of tissue is often, but not always, present in the hypodermis?
- 9. What is the function of sebaceous glands?
- 10. What is the function of sweat glands?
- 11. List the five layers of the epidermis IN ORDER starting from the top and working down to the bottom, innermost layer. List what occurs in each layer.
- 12. In which layers of the epidermis are the cells alive?
- 13. What are melanocytes, and what do they do to the skin?
- 14. Look at the cross-section of skin on page 94, question 12 of your textbook. Identify the structures that are lettered.
- 15. What are the three sections of the hair? Which sections contain cells with soft keratin? Which cells contain hard keratin?
- 16. What is the hair matrix?
- 17. Download or draw picture of a fingernail cross-section. Label the cuticle, matrix cells, lunula, nail plate, and epidermis. You may download an image that has these labels.
- 18. Are sweat glands apocrine, merocrine, or holocrine?
- 19. Are sebaceous glands apocrine, merocrine, or holocrine?
- 20. Honors: Cancer results from the uncontrolled mitosis of a group of cells. In what layers of the epidermis is it possible to get cancer? Why is it impossible to get cancer in the other layers of the epidermis?
- 21. Honors: What is Brunsting-Perry cicatricial pemphigoid? What part of the skin is affected? What is its cause?

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Assignment #2

Read pages 75 - 90.

- 22. Define the following terms:
 - a. Diaphysis
 - b. Epiphysis
 - c. Epiphyseal plate
 - d. Compact bone
 - e. Cancellous bone
 - f. Ossification
 - a. Periosteum
 - h. Articular cartilage
 - i. Axial skeleton
 - j. Appendicular skeleton
 - k. Suture
 - I. Process
 - m. Meatus
 - n. Foramen
 - o. Sinus
- 23. Classify the following bones as long, short, flat, irregular, or sesamoid:
 - a. Ribs
 - b. Carpals
 - c. Patella
 - d. Metatarsals
 - e. Coxa
 - f. Humerus
 - g. Vertebra
 - h. Mandible
- 24. Where is the bone marrow found in a long bone?
- 25. What is the difference between red marrow and yellow marrow? What type of marrow would you expect to find in the femur of an 8-year old? In the femur of an 80-year old?
- 26. List four functions of the skeletal system.
- 27. List location of and the number of each type of vertebrae:
 - a. Cervical
 - b. Thoracic
 - c. Lumbar
- 28. Describe the difference between true ribs, false ribs, and floating ribs. How many pairs of each does a person have?
- 29. Look at the skeletal diagrams on page 95 of your textbook, questions 20. Identify the structures that are lettered.
- 30. Look at the skeletal diagrams on page 95 of your textbook, questions 21. Identify the structures that are lettered.
- 31. Honors: Evenity is a new medication for the treatment of osteoporosis. How does Evenity work? Specifically, what does it do?