

Chapter 6

The Skin and Related Structures

Objectives

- Identify the cells, tissues, and organs of the system.
- Identify the layers of the skin and describe the structures found in these layers.
- List the functions of the skin.
- Pronounce, spell, define, and write medical terms common to this system.
- Describe common diseases of the system
- Listen, read, and study so you can speak and write effectively

Layers of the Skin

✓ The **epidermis** is the outer layer of skin

✓ The **dermis** is under the epidermis

✓ **Subcutaneous** tissue is under the dermis

Vocabulary

Epithelium: the tissue that makes up the epidermis; its cells are called **epithelial**

Melanin: substance produced by the epidermis that protects skin from the sun's rays; its cells are called **melanocytes**

✓ Pathology

A **burn** is an injury to the skin caused by heat, chemicals, electricity, or radiation

Psoriasis is a chronic skin inflammation identified by its red, scaly appearance

• **Tumors** are abnormal growth of tissue cells. They can either be **benign (non-cancerous)** or **malignant (cancerous)**.

In your textbook, make sure you review the sections on New Roots And Prefixes and follow the directions for Learning The Terms.

Also, pay attention to the pictures, graphics, and X-Rays throughout the chapter. They are there to help you understand the terms and how they apply to specific body parts

Remember to do some of the questions in the Review Exercises. They will help prepare you for the exam.

Exam 6

Multiple Choice – Select the best answer

1. The outer layer of skin is the _____.
A. dermis
B. epidermis
C. subcutaneous tissue
D. sebaceous tissue
2. A patient receiving cryotherapy is receiving a treatment that is _____.
A. hot
B. wet
C. medicated
D. cold
3. A first-degree burn affects the _____.
A. muscle, subcutaneous tissue, dermis, and epidermis
B. dermis and epidermis
C. epidermis
D. subcutaneous tissue, dermis, and epidermis
4. Chemotherapy is _____.
A. drug therapy
B. use of radiation
C. use of lasers
D. a surgical treatment
5. Sebaceous glands secrete oil called _____.
A. melanin
B. sebum
C. papilloma
D. lipoma

True or False – Answer each question true (T) or false (F)

6. The skin is the largest organ in the body. True (T) or False (F)
7. Subcutaneous tissue is part of the dermis. True (T) or False (F)
8. The dermis is made of connective tissue. True (T) or False (F)

9. Benign tumors commonly metastasize. True (T) or False (F)
10. A person who is bald has alopecia. True (T) or False (F)
11. The presence of necrotic tissue indicates the wound is healing. True (T) or False (F)
12. Erythematous tissue is black in color. True (T) or False (F)

Completion – Choose the correct answer

13. The nurse notices the patient has a blue color of the lips and nailbeds; this condition is called _____
- A. onychomycosis
 - B. cyanosis
 - C. tonsillitis
 - D. thrombosis
14. The patient developed a disease in which blisters, or _____, appeared on the skin.
- A. scales
 - B. moles
 - C. warts
 - D. vesicles
15. To verify the diagnosis, the physician did a _____, in which she removed breast tissue for microscopic analysis.
- A. biopsy
 - B. lumpectomy
 - C. incision
 - D. excision
16. Mr. Rabb fell from his bicycle, sustaining an _____, or scrape on his leg.
- A. cut
 - B. abrasion
 - C. vesicle
 - D. plantar

17. The _____ tissue is the layer beneath the dermis.

- A. subcutaneous
- B. epidermis
- C. melanin
- D. integumen

18. A _____ injection involves giving medication through a needle inserted into (under) the skin.

- A. hyperdermic
- B. subcutaneous
- C. hypodermic
- D. endodermic

19. A _____ is a benign tumor of fatty tissue.

- A. melanoma
- B. lipoma
- C. blastoma
- D. papilloma

20. _____ is a fungal infection of the skin.

- A. psoriasis
- B. seborrhea
- C. dermatitis
- D. onychomycosis

Matching – Match the definition with the correct term

- | | | |
|-------------------|---|-------------|
| 21. Skin | D | A. sub- |
| 22. Death | C | B. -tic |
| 23. Under | A | C. necr/o |
| 24. Pertaining to | B | D. dermat/o |
| 25. Away from | E | E. ab- |

This is the End of this exam. Move on to the next lesson. You will need a NEW answer sheet for your next exam.