

CHAPTER 32

Study Guide

Section 1: The Integumentary System

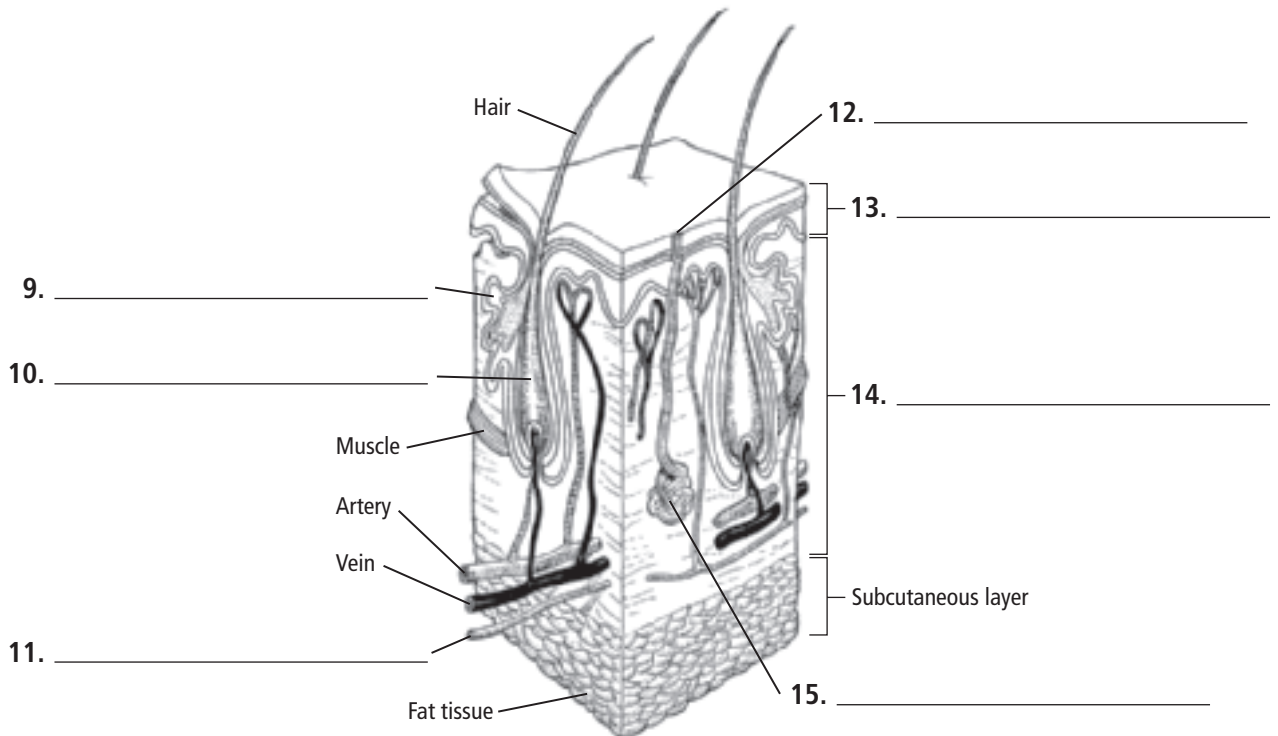
In your textbook, read about the structure of skin.

Complete the table by checking the correct column(s) for each description.

Description	Epidermis	Dermis
1. The outermost layer of skin		
2. Contains connective tissue, glands, and muscles		
3. The thicker, inner layer of skin		
4. Partly composed of dead keratin-containing cells		
5. Contains pigmented cells		
6. Layer from which hair follicles grow		
7. Site of continual mitotic division		
8. Has many blood vessels and nerves		

Label the diagram of the structural parts of skin. Use these choices:

- dermis
- epidermis
- hair follicle
- nerve
- sebaceous gland
- sweat gland
- sweat pore



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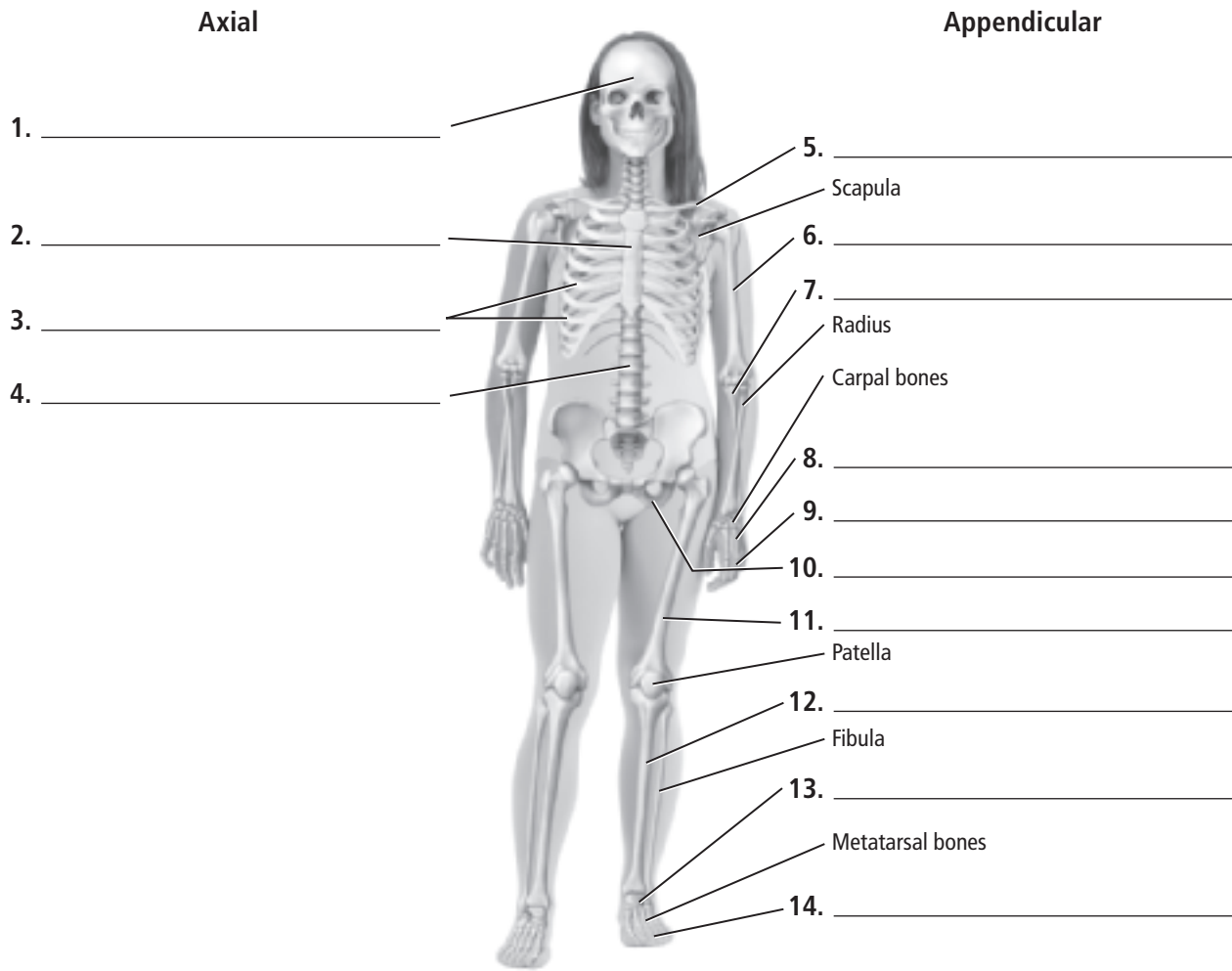
Study Guide

Section 2: The Skeletal System

In your textbook, read about the structure of the skeletal system.

Compare the axial skeleton with the appendicular skeleton by examining the illustration below. Label the diagram. Use these choices:

- | | | | | |
|-----------|-------|------------------|------------------|---------------|
| clavicle | femur | humerus | metacarpal bones | pelvic girdle |
| phalanges | ribs | skull | sternum | tarsal bones |
| tibia | ulna | vertebral column | | |



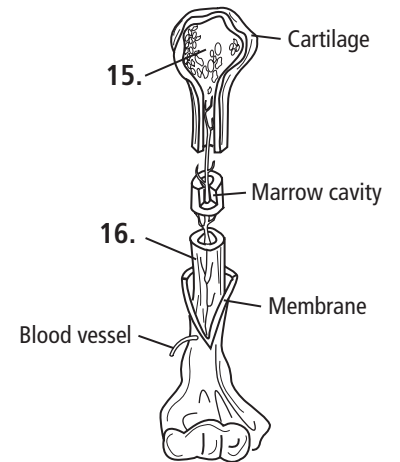
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Study Guide, Section 2: The Skeletal System continued

In your textbook, read about compact and spongy bone.

Examine the illustration, and identify compact bone and spongy bone in the table. Complete the table by filling in the missing information.

Type of Bone	Description
15.	17.
16.	18.



In your textbook, read about joints.

Label the illustrations of the four different types of joints. Use these choices:

ball-and-socket joint

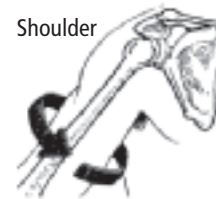
gliding joint

hinge joint

pivot joint



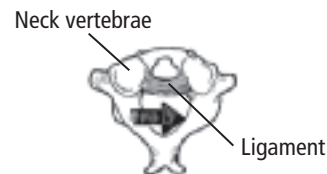
19. _____



21. _____



20. _____



22. _____

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Section 3: The Muscular System

In your textbook, read about the three types of muscle.

Complete the table by filling in the missing information. Use these choices:

cardiac
smooth

gap junctions
striated

heart
tendons

skeletal
voluntary

Muscle Type	Definition
1.	4. involuntary; it is not _____, or striped; each cell has one nucleus
2.	5. involuntary; only in the _____; striated cells arranged in a network, or web; cells have one nucleus and are connected by _____
3.	6. _____; attached to bones by _____; striated

In your textbook, read about skeletal muscle contraction.

Match the definition in Column A with the term in Column B.

Column A

- _____ 7. part of the muscle that contracts
- _____ 8. smaller units that make up muscle fibers
- _____ 9. have great endurance and store a lot of oxygen
- _____ 10. protein filaments that make up myofibrils
- _____ 11. adapted for strength and store little oxygen
- _____ 12. energy for muscles provided by cellular respiration

Column B

- A. myofibrils
- B. sarcomere
- C. myosin and actin
- D. ATP
- E. slow-twitch muscles
- F. fast-twitch muscles