

Section 36–3 The Integumentary System (pages 933–936)

This section describes the integumentary system and its functions.

Introduction (page 933)

- Circle the letter of each choice that is part of the integumentary system.

a. skin	c. cartilage
b. bones	d. nails

The Skin (pages 933–936)

- The most important function of the skin is _____.
- List the four functions of the integumentary system.
 - _____
 - _____
 - _____
 - _____
- The largest component of the integumentary system is the _____.
- The outer layer of skin is called the _____.
- Is the following sentence true or false? The inner layer of the epidermis is made up of dead cells. _____

Match each term with its definition.

Term	Definition
_____ 7. keratin	a. Tough, fibrous protein
_____ 8. melanin	b. Inner layer of the skin
_____ 9. dermis	c. Dark brown pigment

- Circle the letter of each sentence that is true about melanocytes.
 - Melanocytes are cells that produce melanin.
 - Most people have roughly the same number of melanocytes in their skin.
 - All melanocytes produce about the same amount of melanin.
 - Most people have the same distribution of melanocytes in their skin.
- Is the following sentence true or false? The epidermis contains blood vessels.

- Circle the letter of each type of structure that is found in the dermis.

a. blood vessels	c. glands
b. nerve endings	d. hair follicles

13. How does the dermis help regulate body temperature? _____

14. List the two types of glands contained in the dermis.
a. _____
b. _____

15. How does sweat help keep you cool? _____

16. What is the function of sebum? _____

Hair and Nails (page 936)

17. The basic structure of human hair and nails is _____.

18. List the two functions of head hair.
a. _____
b. _____

19. How does hair in the nose and ears and around the eyes help protect the body?

20. Hair is produced by cells called _____.

21. Is the following sentence true or false? Hair is composed of cells that have died.

22. What causes hair to grow? _____

23. What is the nail root? _____

WordWise

Test your knowledge of the vocabulary terms from Chapter 36 by solving the clues. Then, copy the numbered letters in order to complete the hidden message.

Clues

Place where one bone attaches to another

— 1 — 2 —

Tough layer surrounding a bone

— 3 — — — 4 — — — —

Tough connective tissue that holds bones together

— — — 5 — — — 6 —

Inner layer of the skin

7 — — — 8 — —

Type of junction where a motor neuron and a skeletal muscle cell have contact

— — — 9 — — — — — 10 11 — — 12 — —

Type of connective tissue making up the skeleton of an embryo

— — — — — — — — — 13

Replacement of cartilage by bone during the process of bone formation

— — — 14 — — — — — — — — — —

Protein in thick filaments in muscle

15 — — 16 — — —

Type of canal that runs through bone and contains blood vessels and nerves

— — — 17 18 — — — — —

Neurotransmitter that diffuses across a synapse to a muscle cell

— — — — — 19 — — — — — 20 — — — — —

Hidden Message: B

1 2 3 4 5 6 7

8 9 10 11 12 13 14 15 16 17 18 19 20 u.