

Structure and Function in Living Systems

Name:

Sensing the Environment

Period:

Use Chapter 17, Section 2 of your textbook to answer the questions below. The word banks can be used to fill out the sentences below them.

increase integumentary involuntary nervous reflex sensory receptors skin
sweat

Section 2: Sensing the Environment (p.534)

1. If someone touches you, _____ send that information to your brain.

_____ 2. What do you call the awareness caused when sensory messages reach the brain?

- a. reception b. recognition c. sensation d. information

Sense of Touch (p.534)

3. Sensory receptors in your _____ tell you if you have been touched.

4. The _____ system forms a protective covering on the outside of the body.

_____ 5. Look at Figure 1. Which of the following would NOT be sensed by skin receptors?

- a. vibration b. pressure c. pain d. light

Responding to Sensory Messages (p.535)

6. Look at Figure 2. What system is being used by the man's body? The _____ system.

7. Any type of very fast, involuntary action is a _____.

8. An _____ reflex is faster than a movement you have to think about.

Feedback Mechanisms (p.535)

9. If your brain receives a message that you are hot, it will respond by sending messages for your body to make you _____ and for your blood flow to _____.

_____ 10. The body's cooling process can be described as which of the following?

- a. a reflex b. a somatic response c. a feedback mechanism d. a sensation

