

Structure and Function in Living Systems

Name:

The Peripheral Nervous System

Period:

Use Chapter 17, Section 1 of your textbook to answer the questions below.

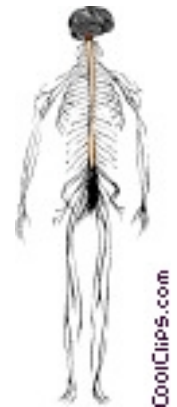
Section 1: The Nervous System

Two Systems Within a System (p.526)

- _____ 1. What does the nervous system do?
- a. interprets information
 - b. responds to information
 - c. gathers information
 - d. all of the above
2. The brain and spinal cord make up the _____ nervous system.
3. The _____ nervous system is the part of the nervous system that includes all parts except for the brain and spinal cord.

The Peripheral Nervous System (p.527)

4. _____ are special nerve cells in your body that transfer messages.
5. _____ are fast-moving electrical messages that travel along nerve cells.



Neuron Structure (p.527)

Match the correct description with the correct term. Write the letter in the space provided.

- | | |
|---|--------------|
| _____ 6. allows the neuron to receive information | a. cell body |
| _____ 7. carries impulses from the cell body | b. dendrite |
| _____ 8. has a nucleus and cell organelles | c. axon |

Sensory Neurons: Collecting Information (p.528)

9. Sensory neurons gather _____ about what is happening in your body.
10. Nerve endings called receptors detect _____ inside and outside your body.

Motor Neurons: Delivering Orders (p.528)

11. The motor neurons send impulses from the brain and spinal cord to other _____ .
12. What kind of neurons make you squint your eyes? _____

Nerves (p.528)

13. _____ connect the central nervous system to the rest of the body.
- _____ 14. Which of the following are not a part of nerves?
- a. bones
 - b. blood vessels
 - c. axons
 - d. connective tissue

turn over for more questions

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Somatic and Autonomic Nervous Systems (p.529)

_____ 15. What are the two types of motor neurons in the peripheral nervous system that relay central nervous system responses?

- a. sympathetic and parasympathetic
- b. central and peripheral
- c. somatic and autonomic
- d. voluntary and involuntary

Somatic Nervous System (p.529)

16. Neurons in your somatic nervous system control move your _____ .

_____ 17. Which of the following is NOT controlled by the somatic nervous system?

- a. heart rate
- b. jumping
- c. talking
- d. writing

Autonomic Nervous System (p.529)

_____ 18. The autonomic nervous system controls things you don't need to think about like

_____ and heart rate.

19. The automatic nervous system keeps your body's functions in _____. This means that the inside of you is stable; this is called _____ .