

Directed Reading A

Section: The Nervous System

TWO SYSTEMS WITHIN A SYSTEM

Write the letter of the correct answer in the space provided.

- _____ 1. What does the nervous system do?
- a. pumps blood
 - b. gathers and interprets information
 - c. digests food
 - d. eliminates waste
- _____ 2. The brain and spinal cord make up what part of the nervous system?
- a. peripheral nervous system
 - b. central nervous system
 - c. somatic nervous system
 - d. autonomic nervous system
- _____ 3. What part of the nervous system includes all parts except for the brain and spinal cord?
- a. peripheral nervous system
 - b. central nervous system
 - c. somatic nervous system
 - d. autonomic nervous system

THE PERIPHERAL NERVOUS SYSTEM

- _____ 4. What are special cells in your body that transfer messages called?
- a. impulses
 - b. homeostasis
 - c. neurons
 - d. cell bodies
- _____ 5. What are fast-moving electrical messages that travel along nerve cells called?
- a. impulses
 - b. dendrites
 - c. axons
 - d. cell bodies

Directed Reading A *continued***Neuron Structure**

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

Write the letter of the correct answer in the space provided.

- _____ 9. Which neurons gather information about what is happening in your body?
- a. motor
 - b. sensory
 - c. receptor
 - d. light
- _____ 10. What are the specialized nerve endings at the end of the sensory neurons?
- a. axons
 - b. muscles
 - c. receptors
 - d. nuclei

Motor Neurons: Delivering Orders

- _____ 11. What neurons send impulses from the brain and spinal cord?
- a. motor neurons
 - b. sensory neurons
 - c. receptors
 - d. light

NERVES

- _____ 12. What connects the central nervous system to the rest of the body?
- a. axons
 - b. nerves
 - c. blood vessels
 - d. connective tissue
- _____ 13. Which of the following are a part of nerves?
- a. skeletal muscles
 - b. skin cells
 - c. axons
 - d. bones

Directed Reading A *continued*

SOMATIC AND AUTONOMIC NERVOUS SYSTEMS

- _____ 14. What are the two types of motor neurons in the PNS that relay CNS responses?
- a. sympathetic and parasympathetic
 - b. central and peripheral
 - c. somatic and autonomic
 - d. voluntary and involuntary

Somatic Nervous System

- _____ 15. Which of the following is NOT controlled by the somatic nervous system?
- a. heart rate
 - b. jumping
 - c. talking
 - d. writing

Autonomic Nervous System

- _____ 16. Which of the following is controlled by the autonomic nervous system?
- a. heart rate
 - b. jumping
 - c. talking
 - d. writing
- _____ 17. What are the two divisions of the autonomic nervous system?
- a. sympathetic and parasympathetic
 - b. central and peripheral
 - c. somatic and autonomic
 - d. voluntary and involuntary

THE CENTRAL NERVOUS SYSTEM

- _____ 18. The central nervous system receives information from which of the following?
- a. somatic neurons
 - b. autonomic neurons
 - c. motor neurons
 - d. sensory neurons

The Brain

- _____ 19. What is the main control center of the nervous system?
- a. the spinal cord
 - b. the brain
 - c. neurons
 - d. nerves

Directed Reading A *continued*

- _____ 20. What are the three main parts of the brain?
- a. cerebrum, cerebellum, and medulla
 - b. spinal cord, cerebrum, and cerebellum
 - c. medulla, spinal cord, and cerebrum
 - d. medulla, spinal cord, and cerebellum

The Cerebrum

- _____ 21. What is the largest part of your brain?
- a. right hemisphere
 - b. left hemisphere
 - c. cerebrum
 - d. medulla
- _____ 22. Which part of the cerebrum directs the right side of the body?
- a. right hemisphere
 - b. left hemisphere
 - c. upper hemisphere
 - d. lower hemisphere

The Cerebellum

- _____ 23. What part of your brain helps you keep your balance?
- a. cerebrum
 - b. hemisphere
 - c. cerebellum
 - d. medulla

The Medulla

- _____ 24. What is one involuntary process the medulla controls?
- a. balance
 - b. talking
 - c. memory
 - d. heart rate

THE SPINAL CORD

- _____ 25. What are the bones that protect your spinal cord called?
- a. neurons
 - b. homeostasis
 - c. vertices
 - d. vertebrae

Spinal Cord Injury

- _____ 26. Which of the following could be affected by a spinal cord injury?
- a. sense of smell
 - b. sight
 - c. sense of touch
 - d. hearing

Skills Worksheet

Vocabulary and Section Summary B

The Nervous System

VOCABULARY

After you finish reading the section, try this puzzle! Unscramble the letters at the end of each description to find the word that is being described.

1. system in your body responsible for gathering and interpreting information about the body's internal and external environment: URSVNEO

2. subdivision of question 1; includes your brain and spinal cord: ANRCELT

3. subdivision of question 1; includes everything except the brain and spinal cord: LIPPERHARE

4. specialized cells that transfer messages as electrical energy: NENORUS

5. axons that are bundled together with blood vessels and connective tissue: NSREVE

6. the largest organ of the central nervous system: ARNIB
