

Structure and Function in Living Systems

Name:

The Central Nervous System

Period:

Use Chapter 17, Section 1 of your textbook to answer the questions below. The word banks can be used to fill out the sentences below them. Some terms may be used more than once.

cerebellum hemisphere involuntary largest left memories organ right
sensory information voluntary voluntary movements

The Central Nervous System (p.530)

- _____ 1. 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 (p.530)

2. Your brain is the largest _____ in the nervous system.

- _____ 3. What is the main control center of the nervous system?
a. the spinal cord b. the brain c. neurons d. nerves



4. Things that your brain does automatically are called _____ processes.
5. Your brain helps you to do things you want to do (like walk in a certain direction, or grab something) through _____ processes.

- _____ 6. What are the three main parts of the brain?
a. cerebrum, cerebellum, and medulla c. medulla, spinal cord, and cerebrum
b. spinal cord, cerebrum, and cerebellum d. medulla, spinal cord, and cerebellum

The Cerebrum (p.530)

7. The cerebrum is the _____ part of your brain.
8. The cerebrum stores _____ and controls _____.
9. Each half of your cerebrum is called a _____.
10. The right hemisphere controls the _____ side of your body, while the left hemisphere controls the _____ side of your body.
11. Look at Figure 4. You use your _____ hemisphere if you are trying to figure out if someone is happy or sad.
12. Look at Figure 4. You use your _____ hemisphere if you are taking a math test.

The Cerebellum (p.531)

13. Your cerebellum processes _____ from your body.
14. Look at Figure 5. As the dog pulls the girl off-balance, the _____ part of her brain keeps her from falling over.

turn over for more questions

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below cerebrum impulses involuntary medulla safety equipment spinal cord
thumb vertebrae

The Medulla (p.531)

15. The medulla is connected to your _____ .
16. The medulla controls _____ processes like breathing.
17. If your blood pressure gets low, the _____ sends impulses to correct the problem.
18. Look at Figure 6. Which area of the brain processes the most functions? the _____

The Spinal Cord (p.532)

19. Your spinal cord is about as big around as your _____ .
20. _____ are the bones that protect your spinal cord.
21. Your spinal cord carries _____ that move between your brain and other body parts.
22. If your spinal cord is injured, information sent from _____ the injury may not make it to your brain.
- _____ 23. Which of the following could be affected by a spinal cord injury?
a. sense of smell b. sight c. sense of touch d. hearing
24. Wearing _____ may prevent spinal cord injuries in sports.