

Structure and Function in Living Systems

Name:

Communication and Control Questions

Period:

Try these practice questions by first using just your brain. Then make sure you got the answers right by checking in Chapter 17.

- _____ 1. Which part of the brain is used for thinking and memory?
a. medulla b. cerebrum c. cerebellum d. thymus
- _____ 2. Which of the following carry information between the body and the central nervous system?
a. skin cells b. nerves c. cells d. tissues
- _____ 3. What body system does skin belong to?
a. peripheral nervous system c. integumentary system
b. somatic nervous system d. central nervous system
- _____ 4. What body system connects all parts of the body to the central nervous system?
a. peripheral nervous system c. integumentary system
b. somatic nervous system d. autonomic nervous system
- _____ 5. What body system controls voluntary movements?
a. respiratory system c. integumentary system
b. somatic nervous system d. autonomic nervous system
- _____ 6. What body system controls involuntary body functions?
a. respiratory system c. integumentary system
b. somatic nervous system d. autonomic nervous system
- _____ 7. What structure includes dendrites & axons that receive & transmit information to body cells?
a. brain b. skin c. neurons d. spinal cord
- _____ 8. Besides enabling you to hear sound energy, what other function does the ear serve?
a. smells b. sees c. maintains body temperature d. maintains balance
- _____ 9. Why is it impossible to live without the medulla?
a. It controls the body's voluntary processes. c. It controls emotion.
b. It controls the body's involuntary processes. d. It controls cognitive processes.



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

- _____ 10. includes the spinal cord and brain a. central nervous system
- _____ 11. controls body functions you don't think about b. autonomic nervous system
- _____ 12. carries nerve impulses to muscles or glands c. sensory neuron
- _____ 13. gathers information from inside or around the body d. motor neuron

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

- _____ 14. This is a ring of muscle that controls the amount of light entering the eye. a. retina
- _____ 15. This is a layer of light-sensitive cells. b. pupil
- _____ 16. This is an opening in the front of the eye. c. optic nerve
- _____ 17. This carries impulses to the brain. d. iris

turn over for more questions

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Use the terms from the following list to complete the sentences below.

brain axon feedback mechanism reflex cochlea papillae

18. A long nerve fiber that carries impulses to other cells is an _____.
19. The main control center of the nervous system is the _____.
20. A nearly immediate, involuntary response to an external stimulus is a _____.
21. In a _____, information from one step controls or affects a previous step.
22. The tube in the inner ear that is necessary for hearing is the _____.
23. The tiny bumps that cover the tongue are _____.