

STUDY GUIDE CH 8: Nervous System**Multiple Choice**

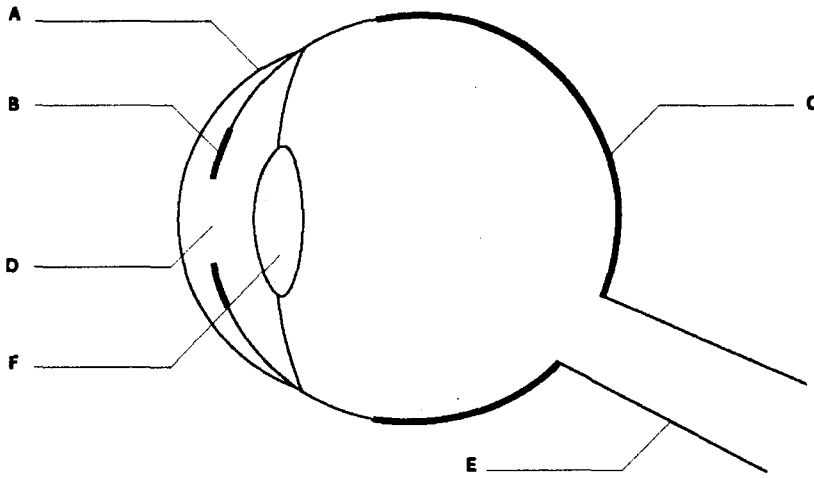
Identify the letter of the choice that best completes the statement or answers the question.

- _____ 1. Axons bundled with blood vessels and connective tissue are a(n)
a. spinal cord. b. nerve. c. impulse. d. reception.
- _____ 2. The spinal cord is protected by the
a. neurons. b. connective tissue. c. medulla. d. vertebrae.
- _____ 3. Papillae are
a. bumps on tongue containing taste buds. c. tiny bones in the ear.
b. cells in the nose that sense odors. d. the name for the four basic tastes.
- _____ 4. Receptors in your skin include all of these EXCEPT
a. light touch. c. deep pressure and vibration.
b. pressure and heat. d. olfaction.
- _____ 5. The correct sequence for structures that light passes through when entering the eye, from outside to inside, is
a. cornea, retina, lens. c. cornea, pupil, lens.
b. retina, cornea, pupil. d. pupil, optic nerve, retina.
- _____ 6. A feedback mechanism is
a. a series of events in which one step controls or affects a previous step.
b. a series of events in which each step is independent of all others.
c. the process by which a reflex occurs.
d. the mechanism that tells you that you that are hungry.
- _____ 7. Which of the following allows you to smell?
a. cochlea cells b. olfactory cells c. optic nerves d. cones
- _____ 8. The part of the brain where we think and store memories is the
a. cerebrum. c. central nervous system.
b. cerebellum. d. medulla.
- _____ 9. If you rub a piece of sand that blows into your eye, you are likely to scratch your
a. cornea. b. thymus. c. iris. d. retina.
- _____ 10. The cerebrum
a. is the largest part of the brain. c. is divided into hemispheres.
b. help us think and remember. d. All of the above
- _____ 11. Which part of the brain is used for thinking and memory?
a. medulla b. cerebrum c. cerebellum d. thymus
- _____ 12. What connects your body to the central nervous system?
a. neurons b. nerves c. brain d. muscle
- _____ 13. What body system does skin belong to?
a. nervous b. spinal c. integumentary d. solar
- _____ 14. In which order are neurons activated during a reflex response to a painful stimulus?
a. sensory neuron, brain, motor neuron c. motor neuron, sensory neuron, brain
b. motor neuron, brain, sensory neuron d. sensory neuron, motor neuron, brain
- _____ 15. Which of the following body functions are controlled by the autonomic nervous system?
a. heart rate c. voluntary movement
b. speaking d. papillae

- ___ 16. Which structure of the central nervous system would need to be active in order to walk on a balance beam?
 - a. spinal cord b. cerebrum c. cerebellum d. medulla
- ___ 17. Carries nerve impulses to muscles or glands
 - a. sensory neuron b. motor neuron c. pituitary gland d. tonsils
- ___ 18. Gathers information from inside or outside the body
 - a. sensory neuron b. motor neuron c. pituitary gland d. tonsils

Matching

Match the labels to the drawing.



- ___ 19. cornea
- ___ 20. retina
- ___ 21. pupil
- ___ 22. iris

True/False

Indicate whether the sentence or statement is true or false.

- ___ 23. In the drawing above, letter E is pointing to the retina.
- ___ 24. In the drawing above, letter F is pointing to the lens.
- ___ 25. The peripheral nervous system is made up of the brain and the spinal cord.
- ___ 26. Rods typically function only in very bright light.
- ___ 27. Cones provide a colorful view of the world.
- ___ 28. The senses of smell and taste are closely related. Without one, the other senses dulled.
- ___ 29. A specialized nerve ending to detect changes inside and outside the body is a receptor.