Name	Date	Class
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The Human Nervous System Section Review

On the line provided, write the letter of the term from the list that mate be used once, more than once, or not at all.	ches each description. Each choice can	
long branch that carries impulses away from the cell body	a. neuron b. impulse	
2. neurons that carry impulses between sensory and motor neurons	c. cell body d. dendrite	
3. small branched extension of a neuron that carries impulses toward the cell body	e. axon f. nerve	
4. chemical used by one neuron to signal another cell	g. sensory neurons	
5. neurons that carry impulses from the sense organs to the brain and the spinal cord	h. motor neuronsi. interneurons	
6. material that provides insulation for some axons	j. resting potentialk. action potential	
7. condition that exists when there is a net excess of negative charges on the inside of the cell membrane of a neuron	I. myelinm. synapsen. neurotransmitter	
8. basic cell of the nervous system that carries impulses t	throughout the hody	
9. difference in the electrical charge across a neuron's ce	ell membrane	
10. point at which a neuron can transfer an impulse to an	other cell	
11. message in the form of an electrical signal that is carri	ed by the nervous system	
12. basic unit of the nervous system that is made up of a c	tell body, dendrites, and an aven	
13. neurons that carry impulses from the brain or spinal co	ord to muscles or other organi	
14. sudden reversal of the resting potential of a neuron	ord to inductes of other organs	
15. largest part of the neuron and location of most of its m	netaholic activity	
16. rapid change in voltage on the inside of the axon, from back to negative again	n negative to positive and then	
17. small space between the axon of one neuron and the d	endrites of the next neuron	

_____19. material formed from layers of the cell membranes of Schwann cells

_____ 18. bundle of neurons

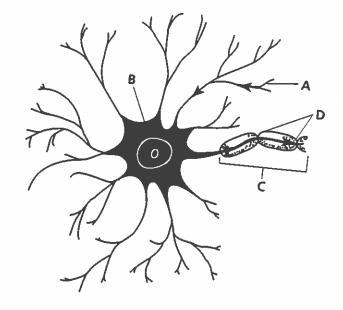
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: Human Nervous System ction Review (continued)

Reviewing Concepts

Complete each statement by underlining the correct word or phrase in the parentheses.

- 20. The structure labeled A in the diagram is a(an) (dendrite, axon).
- 21. The structure labeled (B, D) in the diagram is the cell body.
- 22. The structure in the diagram that carries impulses away from the cell body is labeled (A, C).
- 23. The axon's insulating sheath in the diagram is labeled (A, D).
- 24. (Motor, Sensory) neurons carry impulses from the sense organs to the brain and the spinal cord.
- 25. The resting potential is produced by a net excess of (negative, positive) charges on the inside of the neuron's cell membrane.



- 26. Once an impulse begins, it travels (away from, toward) the cell body of the neuron. 27.
- The points at which the axon membrane is exposed are called (interneurons, nodes).
- The synapse contains tiny sacs filled with (neurotransmitters, negative ions).
- 29. Once released from their receptors, neurotransmitters (are broken down or recycled, travel to

Reviewing Skills

Answer each of the following in the space provided. Use complete sentences as appropriate.

30. Suppo	se a portion of an n. Predict the effec	axon is cut so tha et this would have	d. Use complete se t it is no longer c on the transmiss	entences as appropriate connected to the consistency of impulses. (riate. Cell body of its Making predictions)
31. Why do	you think animal	s evolved myelin i	nsulation around	their axons? (Dr	awing conclusions)