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Section 35–2 The Nervous System (pages 897–900)

S Key Concepts

- What are the functions of the nervous system?
- How is the nerve impulse transmitted?

Introduction (page 897)

	ET OFFICE CENTER (P-3	
1.	What is the function of the nervous system?	

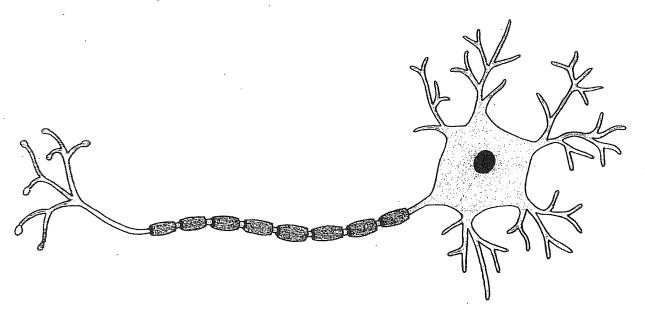
Neurons (pages 897–898)

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2.	How are	ņeurons	classified?	

3. What are three types of neuron	3.	. What are t	hree types	of neurons	;?
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a.	

- 4. Is the following sentence true or false? Sensory neurons carry impulses from the brain and the spinal cord to muscles and glands.
- 5. Label the following features in the drawing of a neuron: cell body, dendrites, and axon.



6. What is the function of the myelin sheath?

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ne Nerve Impulse (pages 898–899)
. The electrical charge across the cell membrane of a neuron in its resting state is called it
How does a nerve impulse begin?
Circle the letter of the choice that describes an action potential.
a. Reversal of charges due to the flow of positive ions into a neuron
b. Increase in negative ions in a neuron due to the flow of potassium out of the cell
c. Change to a negative charge due to the flow of sodium ions out of a neuron
d. Reversal of charges due to the flow of negative ions into a neuron
The minimum level of a stimulus that is required to activate a neuron is called the
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How does a nerve impulse follow the all-or-nothing principle?
<u> </u>
e Synapse (page 900)
What are neurotransmitters?
Describe what happens when an impulse arrives at an axon terminal.
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When you read about a complex process, representing the process with a diagram can help you understand it better. Make a diagram to show how a nerve impulse is transmitted from one cell to another. Do your work on a separate sheet of paper.