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Crash Course BIOLOGY (2012 SERIES) 40 Episode Series Bundle

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Crash Course Biology (2012) #26: The Nervous System

Name: _____ Date: _____

You can access the video here → <https://youtu.be/s4PPZCLaYkA?si=jgIlyzXExYd8iKs>

1. The _____ includes the brain and spinal cord and analyzes incoming data.
2. Outside the brain and spine, the _____ carries signals to and from the body.
3. Systems that carry information to a central point are described as _____.
4. Systems that carry information away from a central point are described as _____.
5. In the PNS, _____ neurons are activated by external stimuli.
6. In the PNS, _____ neurons carry commands from the CNS to muscles and organs.
7. Voluntary movement and conscious sensory input are managed by the _____ nervous system.
8. Heart rate, digestion, and other automatic functions are controlled by the _____ nervous system.
9. The spinal cord's rapid, brain-bypassing response to a hot stove is a _____.
10. During stress, the _____ division raises heart rate and dilates pupils.
11. _____ division promotes salivation and lowers blood pressure after a meal.
12. An electrical signal that rises and falls as it travels down the axon is an _____ potential.
13. Signal speed increases because the axon is insulated by _____ with gaps called Nodes of Ranvier.
14. The jumping of an action potential from node to node is called _____ conduction.
15. At the _____, neurotransmitters cross to the next cell after being released by exocytosis.

Crash Course Biology (2012) #26: The Nervous System - KEY

1. The **central nervous system** includes the brain and spinal cord and analyzes incoming data.
2. Outside the brain and spine, the **peripheral nervous system** carries signals to and from the body.
3. Systems that carry information to a central point are described as **afferent**.
4. Systems that carry information away from a central point are described as **efferent**.
5. In the PNS, **sensory neurons** are activated by external stimuli.
6. In the PNS, **motor neurons** carry commands from the CNS to muscles and organs.
7. Voluntary movement and conscious sensory input are managed by the **somatic nervous system**.
8. Heart rate, digestion, and other automatic functions are controlled by the **autonomic nervous system**.
9. The spinal cord's rapid, brain-bypassing response to a hot stove is a **reflex loop**.
10. During stress, the **sympathetic** division raises heart rate and dilates pupils.
11. **Parasympathetic** division promotes salivation and lowers blood pressure after a meal.
12. An electrical signal that rises and falls as it travels down the axon is an **action potential**.
13. Signal speed increases because the axon is insulated by **myelin** with gaps called Nodes of Ranvier.
14. The jumping of an action potential from node to node is called **saltatory conduction**.
15. At the **synapse**, neurotransmitters cross to the next cell after being released by exocytosis.

15 Questions

Answer Key Included

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