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Crash Course Anatomy & Physiology #12: Peripheral Nervous System

Name: _____ Date: _____

You can access the video here → <https://youtu.be/QY9NTY3-Awo?si=U3YwFFPdmLk0XB7>

1. The _____ nervous system keeps the brain in touch with the physical environment and allows it to respond.
2. _____ respond to changes in temperature.
3. _____ react to light.
4. _____ pay attention to chemicals in the environment.
5. _____ respond to pressure, touch, and vibration.
6. Specialized nerve receptors called _____ fire only to indicate pain.
7. The point at which a stimulus is intense enough to trigger action potentials in nociceptors is called the pain _____.
8. Neurons with _____-gated receptors open when their membranes are stretched.
9. Neurons with _____ receptors open when damaged tissue releases chemicals like histamine or potassium ions.
10. The space between two communicating neurons is called the _____ gap.
11. The _____ division of the peripheral nervous system collects sensory data and sends it to the central nervous system.
12. The _____ division of the peripheral nervous system carries instructions from the central nervous system to effectors.
13. A(n) _____ is any structure that reacts to a motor neuron's signal, such as a muscle or gland.
14. A(n) _____ reflex is a super-fast, innate motor response to a startling stimulus.
15. The _____ cortex identifies and localizes pain.

Crash Course Anatomy & Physiology #12: Peripheral Nervous System KEY

1. The **peripheral** nervous system keeps the brain in touch with the physical environment and allows it to respond.
2. **Thermoreceptors** respond to changes in temperature.
3. **Photoreceptors** react to light.
4. **Chemoreceptors** pay attention to chemicals in the environment.
5. **Mechanoreceptors** respond to pressure, touch, and vibration.
6. Specialized nerve receptors called **nociceptors** fire only to indicate pain.
7. The point at which a stimulus is intense enough to trigger action potentials in nociceptors is called the pain **threshold**.
8. Neurons with **mechanically-gated** receptors open when their membranes are stretched.
9. Neurons with **ligand-gated** receptors open when damaged tissue releases chemicals like histamine or potassium ions.
10. The space between two communicating neurons is called the **synaptic** gap.
11. The **afferent** division of the peripheral nervous system collects sensory data and sends it to the central nervous system.
12. The **efferent** division of the peripheral nervous system carries instructions from the central nervous system to effectors.
13. A(n) **effector** is any structure that reacts to a motor neuron's signal, such as a muscle or gland.
14. A(n) **intrinsic** reflex is a super-fast, innate motor response to a startling stimulus.
15. The **somatosensory** cortex identifies and localizes pain.

15 Questions

Answer Key Included

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