

Lab 13: REFLEX ARC AND REFLEXES

Learning outcomes of the lab exercises:

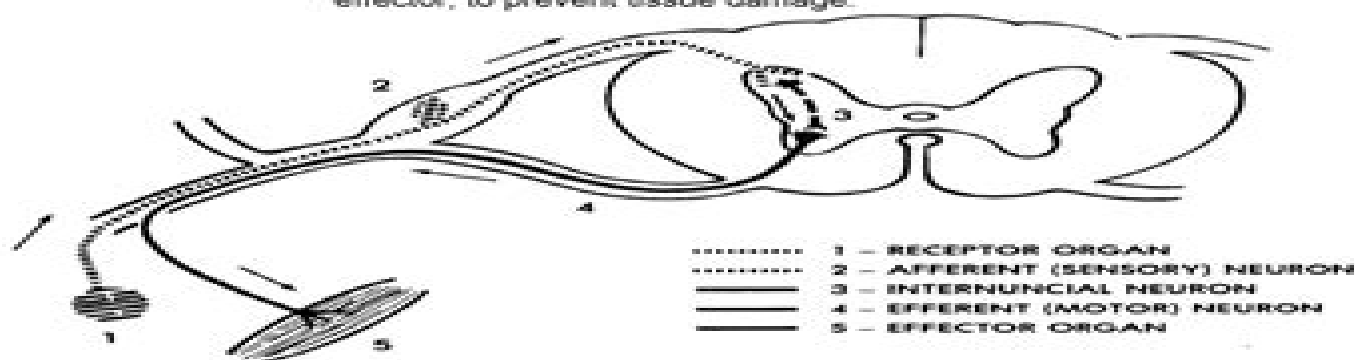
1. Identify and describe each component of a reflex arc.
2. Explain why reflex testing is important in assessing the condition of the nervous system.
3. Describe then demonstrate the following stretch reflexes: patellar (knee-jerk) and plantar reflex
4. Describe then demonstrate the following protective reflex: pupillary light reflex

"The distinction between the structures (i.e., anatomy) of the peripheral and central nervous systems and functions (i.e., physiology) of the somatic and autonomic systems can most easily be demonstrated through a simple reflex action. When you touch a hot stove, you pull your hand away. Sensory receptors in the skin sense extreme temperature and the early signs of tissue damage. This triggers an action potential, which travels along the sensory fiber from the skin, through the dorsal spinal root to the spinal cord, and directly activates a ventral horn motor neuron. That neuron sends a signal along its axon to excite the biceps brachii, causing contraction of the muscle and flexion of the forearm at the elbow to withdraw the hand from the hot stove."

OpenStax A&P pg. 600

Nerve Pathway = the route traveled by a nerve impulse through the nervous system.

1. **Reflex arc** = the simplest demonstration of a nerve pathway
 - a. involves 2-3 neurons;
 - b. involuntary response;
 - c. **does not involve the brain;**
 - d. Examples include:
 - withdrawal ("from pain") reflex; knee-jerk or patellar reflex
 - crossed-extensor reflex; sneezing / blinking
2. Components of a Reflex arc:
 - a. A receptor...
 - b. Afferent (sensory) neuron
 - c. The integration center...interneuron (a.k.a. internuncial neuron)
 - d. Efferent (motor) neuron...
 - e. An effector...
3. Uses of Reflexes:
 - a. to insure proper transmission of a nerve impulse from sensory receptor to effector; to prevent tissue damage.



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**Patricia J. Donnelly, George A.
Wistreich**



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