Response and Regulations

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| **Across**  **3.** Consists of dense collections of myelinated fibers.  **7.** Consists mainly of the nerves that extend from the brain to the spinal cord.  **9.** The change in membrane potential that returns it to a negative value just after the depolarization phase of an action potential has changed the membrane potential to a positive value.  **11.** Form the myelin sheaths around nerve fibers that are found in the PNS.  **12.** Contains mostly unmyelinated fibers and cell bodies.  **13.** Neurons with two processes-an axon and a dendrite.  **15.** Consists of the brain and spinal cord, occupy the dorsal body cavity. | **Down**  **1.** Several neurons. Most common structural type.  **2.** Carries impulse from the CNS to effector organs, the muscles and glands.  **4.** Neuron processes that convey incoming messages toward the cell body.  **5.** The master controlling and communicating system of the body.  **6.** When a nerve impulse stimulates ion channels to open, positive ions flow into the cell and cause depolarization, which leads to muscle cell contraction.  **8.** Small collections of cell bodies found in a few sites outside the CNS in the PNS.  **10.** Generate nerve impulses and typically conduct them away from the cell body.  **14.** Consists of nerves that convey impulses to the CNS from sensory receptors located in various parts of the body.  **16.** Have a single process emerging from the cell body |

   Nervous system       Central nervous system       Peripheral nervous system       Afferent       Efferent        Schwann cells       Dendrites       Axons       Ganglia       Gray matter       White matter       Multipolar       Bipolar       Unipolar       Depolarization        Repolarization