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