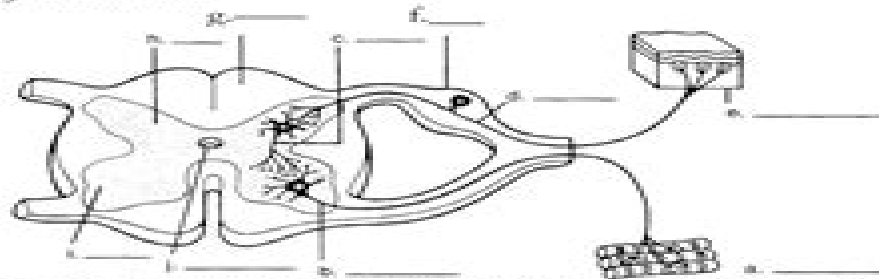


Nervous System Review

- The axon of a neuron conducts nerve impulses away from the cell body, whereas the dendrite conducts nerve impulses toward the cell body. Neurons that conduct messages from a sense organ to the central nervous system are called sensory, or afferent, neurons. Those neurons that conduct an impulse from the CNS to a muscle or gland are called motor, or efferent, neurons. Muscles or glands, in this case, that respond to a nerve impulse are termed effectors. Neurons within the CNS that transmit impulses between sensory and motor neurons are called interneurons.
- What is a nerve fiber? composed of dendrites and/or axons of neurons
- Schwann cells in the peripheral nervous system will wrap around an axon and lay down an insulator called myelin that gives nerve fibers a white, glistening appearance. Gaps where myelin is not present on the nerve fiber are called nodes of Ranvier. These gaps allow the speed of nerve impulse conduction, called saltatory conduction, to be increased.
- When an axon is not conducting an impulse, the membrane potential is equal to about -65 mV, with the inside of the neuron being negative compared to the outside. This polarity is maintained by the sodium/potassium pump in which sodium ions are pumped outside (outside/inside) the axon, and potassium ions are pumped into the axon. Another name for the nerve impulse is the action potential which forms when the axon is stimulated. When the sodium gates open, Na^+ flow into the axon, causing the action potential to swing up to +40 mV and the membrane to become depolarized. Now the K^+ gates open, K^+ flow out (out/into) the axon, and the oscilloscope records a repolarization.
- Label the following diagram of the reflex arc and spinal cord.
 - effector
 - axon of motor neuron
 - interneurons
 - dendrite of sensory neuron
 - receptor
 - dorsal root ganglion
 - white matter
 - gray matter of dorsal horn
 - gray matter of ventral horn
 - central canal



- In the above diagram of a spinal reflex arc, a stimulus is received by a receptor, such as the skin, which initiates a nerve impulse in the sensory neuron. This neuron conducts the impulse to the gray matter of the spinal cord. At this site, a second neuron, called the interneuron, conducts the impulse to the motor neuron,

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