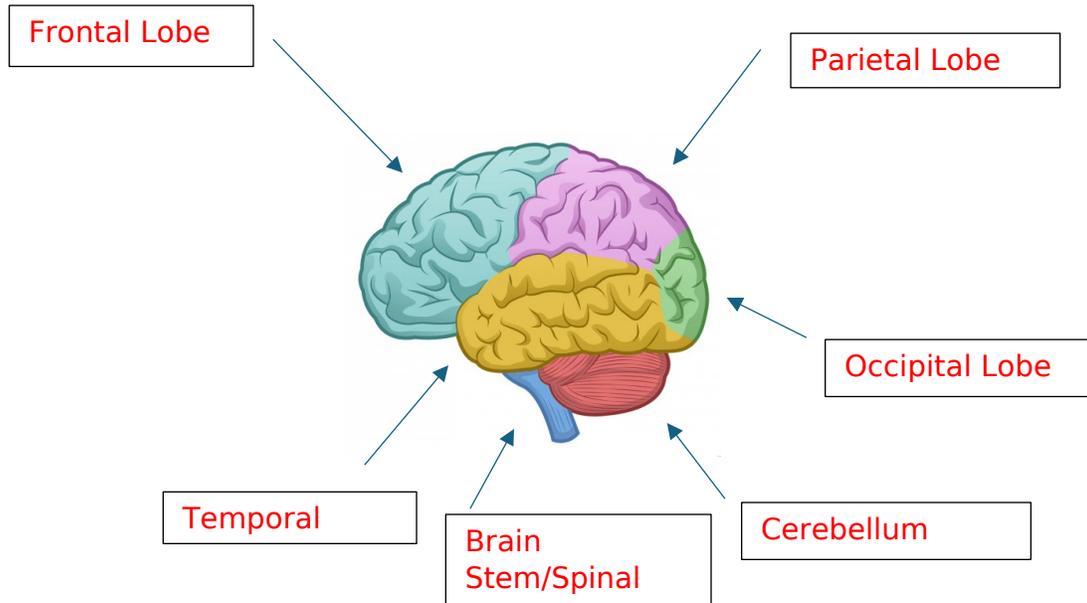


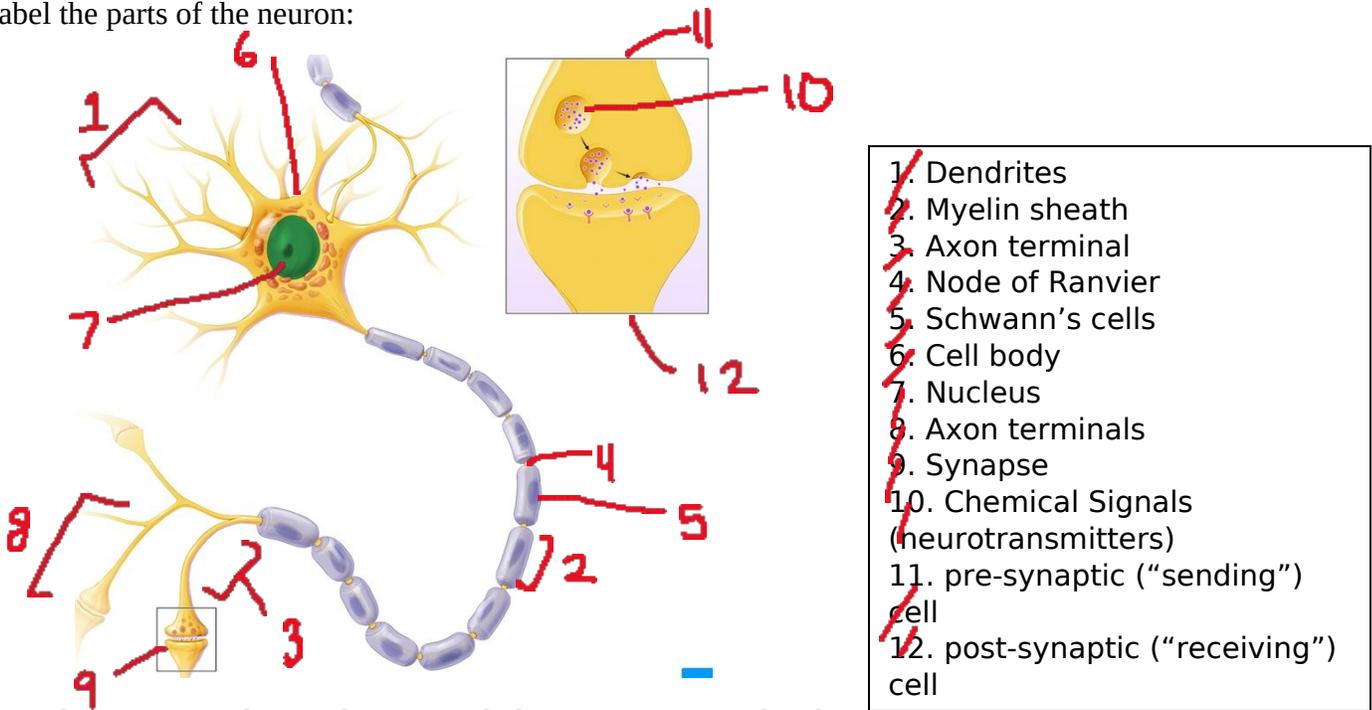
## Neurosensory Unit Part 1: A&P

### Class Preparation

A. Label the parts of the brain and identify the function of each part.



B. Label the parts of the neuron:



C. Describe nerve impulse conduction, including action potential and neurotransmitters.

Nerve impulse conduction is the sending and receiving of electrical signals via neurons to transmit information across the nervous system. An action potential is a rapid electrical change that occurs when a neuron is stimulated, and that occur **ONLY fully or not at all**. The steps of an action potential are depolarization, repolarization, impulse propagation, and neurotransmitter release at the synapse. Neurotransmitters bind to receptors on the post-synaptic neuron, leading to excitatory or inhibitory action potentials. This cycle is utilized by the nervous system for rapid communication through cells that aids with movement, sensation, thought, and several other vital function.