Match the following vocabulary terms with their correct definition:

action potential axons Central Nervous System dendrites depolarization electrochemical process electron gap junctions hyperpolarized

integration ion motor nerves nerves neurotransmitters perception polarization postsynaptic neuron presynaptic neuron

proton refractory period repolarization resting potential sensory nerves sodium/potassium pumps soma synapses

1)	 a long cable-like bundle of nerve cell axons
2)	 a series of actions during a nerve impulse in which a large amount of sodium ions enter the cell after the dendrites receive a stimulus
3)	 active transport system which uses energy to move three sodium ions out of the neuron for every two potassium ions it allows in
4)	 an element which has lost or gained one or more electrons
5)	 areas between synapses in which an electrochemical system can jump from one neuron to another
6)	 cell body of a nerve cell
7)	 chemical which allow for neurons to communicate with other neurons
8)	 control center of the nervous system; consisting of the brain and spinal cord
9)	 electrically negative charge of all neurons

10)	method of communication between neurons in which chemicals are released thereby triggering a nerve impulse
11)	negatively-charged particle within an atom; 1800+ times smaller than a proton
12)	period of time after repolarization when an excess of potassium ions have left the neuron causing it to become more negative
13)	period of time during a nerve impulse in which a neuron can no longer send any more signals along its neuron before its resting potential is reached once again
14)	period of time during a nerve impulse when waves of positively-charged sodium ions enters the neuron; this causes the neuron to become more positively charged
15)	proton-charged particle within an atom
16)	send information AWAY from the central nervous system to the effectors (e.g. muscles or glands)
17)	send information from sensory receivers (e.g., in skin, eyes, nose, tongue, ears) TOWARD the central nervous system
18)	special structures extending from the surface of nerve cells which receive a stimulus
19)	special structures within a nerve cell which move nerve impulses towards the CNS
20)	stage of a neuron in which the electrical charge on the outside of the neuron is positive while the electrical charge on the inside of the membrane is negative
21)	stage within a nerve impulse when the movement of positively-charged ions from the inside of the cell begins to lower the positively-charged cell back to a more negative charge

22)	the cell that receives the message from the presynaptic neuron
23)	the cell which sends a message
24)	the location where two nerve cells meet and transmit signals to each other
25)	the receiving of signals concerning what is going on inside and outside the body
26)	the sorting and directing of signals to other areas of the body

Choose the correct answer from the following questions:

A)somo B)dend	rites unctions oses
A) repo B) an ac C) a ner	sion of potassium ions out of a neuron causes it to experience larization ttion potential eve impulse polarization
A) sense	velinated bral r
impulse is A) an io B) an ac	

D) a neurotransmitter