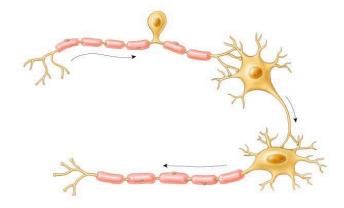
RAVEN CHAPTER 45 GUIDED NOTES: THE NERVOUS SYSTEM

1. Label the different types of neurons and make notes about their function.

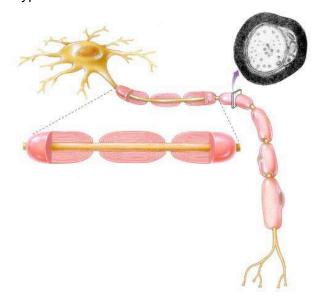


2. Outline the organization of the vertebrate nervous system.

a. Central nervous system _____

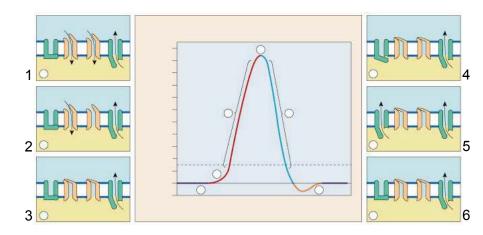
b. Peripheral nervous system _____

3. Label the diagram of a typical neuron



4. Explain how a neuron maintains a -70 mV potential.

5. Detail the stages of the "action potential." Use the graph and diagrams below to indicate what is happening at the membrane in each stage.



1._____

2._____

3._____

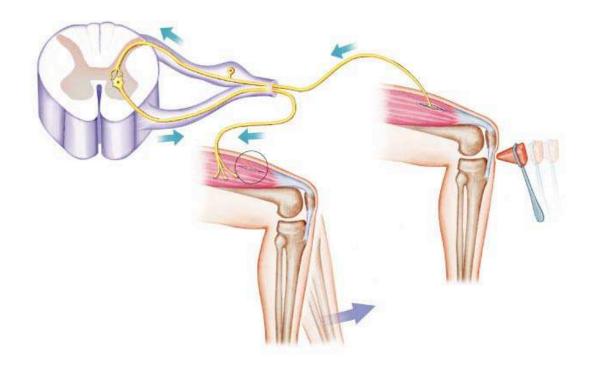
4._____

5.____

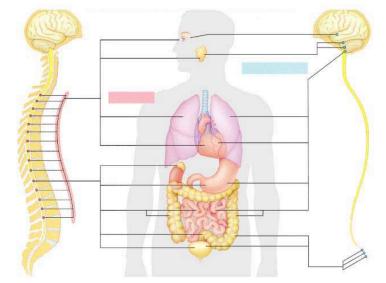
6._____

Na	me	AP Biology
6.		scribe what happens in the pre-synaptic axon when an impulse reaches the terminal end the axon.
7.	— Но	w does an impulse propagate down the axon?
8.	De	scribe what happens at the synapse.
0	 	w ore "messages" corried
9.		w are "messages" carried
		in neurons
	b.	between neurons
10.		acetylcholine
	b.	dopamine
	C.	serotonin
	d.	norepinephrine
	e.	glutamate
	f.	glycine & GABA
	g.	substance P
	h.	nitric oxide

- 13. Trace the reflex pathway by naming the structures.



14. Use the following diagram to explain how the sympathetic and parasympathetic divisions of the autonomic nervous system work together.



15. Explain the fight-or-flight mechanism.

16. List the major components of the human brain and indicate their functions.

