

Name: _____

Hour: _____

Peripheral Nervous System Worksheet

Anatomy & Physiology/Nervous System

1. How do electrical signals move through the body? _____

2. Name four examples of stimuli that can excite a neuron:

a. _____

b. _____

c. _____

d. _____

3. What is the voltage across the membrane of a resting neuron? _____ mV

4. The difference in charge across the membrane is called the resting _____.

5. A resting neuron is said to be "polarized". Explain what this means: _____

6. An excited neuron is said to be "depolarized". Explain what this means: _____

7. How do sodium channels in the membrane allow a neuron to become depolarized? _____

8. Define the term "action potential": _____

9. An action potential provides an "all or nothing" response. Explain what that means: _____

10. During the refractory period, the neuron repolarizes. How do sodium-potassium pumps in the neuron's membrane make this possible? _____

11. Define the term "neurotransmitter": _____

12. Name three examples of neurotransmitters that we have discussed in class:

a. _____

b. _____

c. _____