

Assignment #3 - Neurons -Bio 17

1) How many electrons are typically found in an oxygen atom?

- A) 2
- B) 4
- C) 6
- D) 8
- E) 10

2) Which ion typically enters a neuron during an action potential and typically has the largest effect on the electrical signal?

- A) Na⁺
- B) K⁺
- C) Ca⁺⁺
- D) Mg⁺⁺⁺
- E) Cl⁻

3) Which neurotransmitter, when found in reduced amounts, is related to Parkinson's Disease (use the internet to answer this question)?

- A) GABA
- B) Norepinephrine
- C) Dopamine
- D) Serotonin
- E) Glycine

4) During an action potential, the inside of neuron is generally?

- A) Positive
- B) Negative

5) Explain how the resting potential is generated in a neuron

6) Explain how an action potential is started.

7) Describe how a hormone from the endocrine system works and how it is different from how a neuron works (speed and how long it lasts).

8) Cell Membranes (including those of neurons) are said to be _____ because they allow certain molecules to diffuse through but not others.

9) Name the part of the neuron labeled:

A)

B)

C)

