**Name: Unit 3 -- Biopsychology: Guided Reading – 25 points**

**Important People: Why are they significant to psychology?**

Paul Broca –

Charles Darwin –

Michael Gazzaniga –

Roger Sperry –

Carl Wernicke --

1. What are the parts of a neuron? What are the functions of the parts?
2. What is action potential? How does it work?
3. How do neurons communicate?
4. What are the different types of neurotransmitters?
5. What is the difference between an agonist drug and an antagonist drug?
6. What are the differences between the divisions of the nervous system?
7. How does the endocrine system communicate? What are the different glands?
8. What is the difference between the following brain discovery tools: EEG, CT, PET, MRI, fMRI?
9. What are the parts and functions of the different brain components (structures)?
10. Why is the cerebral cortex so important? What are the 4 different lobes that make up the cerebral cortex? What are their different functions?
11. What are association areas? What are the language areas of the brain?
12. What does brain plasticity refer to?
13. What has split brain research taught us about the two brain hemispheres?
14. How do chromosome, DNA, and genes all relate to each other?
15. What is the difference between identical and fraternal twins?
16. What have we learned from twin studies and adoption studies about nature vs nurture?
17. How is molecular genetics related to behavior genetics?
18. What is heritability? Does it apply to individuals or groups?

**I strongly recommend that you write down the unit vocabulary. I will not collect the vocabulary for the unit, but you may use it on any reading quiz we have in class. The ap exam is heavily weighted on understanding and applying psychology vocabulary. Students who take the time and energy to write down unit vocabulary tend to perform much better on my tests and the ap exam.**