

Study Guide for Bio 4 Hoffman

This guide is intended to help you direct your attention to material covered in class. If by error I have failed to include something on this guide that was covered in lecture, it does not mean it will not be on the test. All material on your Powerpoint handouts may be on your test. I have intended to make this guide comprehensive but it is NOT a *guide* to the questions on the test. Use it wisely.

Chapter 16 Autonomic

1. Compare the effect of a motor neuron in the somatic and autonomic NS.
2. What is meant by antagonistic control of the sympathetic and parasympathetic systems?
3. Are those systems always antagonistic?
4. How many neurons participate in the autonomic pathway? Where do they originate? Where do they synapse? Where do they end up?
5. Sympathetic neurons originate in what specific region of the spine?
6. Parasympathetic neurons originate in what specific regions of the spine?
7. Which are the neurotransmitters of the sympathetic and parasympathetic system? Are they the same? Where are they different?
8. What are the sympathetic chain ganglia?
9. What are the three possible routes that sympathetic neurons follow after leaving the spinal nerve?
10. Name the three large collateral ganglia
11. What allows the sympathetic effects to be so widespread throughout the body?
12. How do adrenergic receptors differ from cholinergic receptors?
13. Understand how Rest and Digest differs from Fight or Flight in its effects on different organs.