

**Honors Physiology
Second Semester
Final Review**

Name: _____

Unit 7 – The Nervous System

List the basic functions of the nervous system.

Explain the organization of the branches of the nervous system, and know what they control.

Describe and label the major structures (and their functions) of the neuron.

Know the different types of neuroglia and their function within the nervous system.

Name and compare the four types of ion channels found in plasma membranes.

Explain how action potentials are generated and propagated along neurons.

Define neurotransmitter. Give an example of a neurotransmitter, and describe its function.

Unit 8 – The Endocrine System

Describe some of the major differences in how the nervous system controls the body, and how the endocrine system controls the body.

List the major organs of the endocrine system, and give their location and function.

Define hormone, and describe how they are chemically classified.

Explain how hormone release is regulated.

Unit 9 – The Cardiovascular System

Describe the composition and physical characteristics of whole blood. Explain why it is classified as connective tissue.

List the functions of blood.

Describe the ABO and Rh blood groups. Explain the basis of transfusion reactions.

Name the heart valves and describe their location, and mechanism of operation.

Trace the pathway of blood through the heart.

Describe the structure and function of the capillary bed.

Know the difference between veins and arteries.

Additional Topics

Music and Memory Lab

This is Your Brain on Music

Sheep Brain, Sheep Heart and Fetal Pig Dissections

In addition to the above information, you are responsible for knowing all vocab terms that have been assigned this semester!