

Week 10, Part 1: Nervous System

Complete this study guide as you work through the Week 8, Part 1 Lessons to help you prepare for the Unit 3 Exams. The complete study guide may be submitted through the submission link in Canvas for up to 2 points of extra credit (depending on completeness). **Please make a copy by clicking on 'file' in the upper left corner and fill this in using a different color font.**

Chapter 8: Introduction & Sections 8.1-8.6

1. Which two organ systems coordinate the activities of all of the other organ systems?
Nervous system and endocrine system
2. List three functions of the nervous system.
 - a. **Monitors the body's internal and external environments**
 - b. **Integrates sensory information**
 - c. **Coordinates voluntary and involuntary responses of many other organ systems**
3. The nervous system has two major divisions: the **central nervous system**, consisting of the brain and spinal cord; and the **peripheral nervous system**, consisting of the cranial and spinal nerves.
4. The PNS has two divisions: the **afferent** division and the **efferent** division.
5. The efferent division of the PNS is divided into the **somatic** nervous system, which allows voluntary control of skeletal muscles, and the **autonomic** nervous system, which is an involuntary system that automatically controls smooth muscle, cardiac muscle, and glands.
6. What are the two primary types of cells found in nervous tissue and what are their functions?
 - a. **Neurons: basic functional units of the nervous system**
 - b. **Neuroglia: regulate environment around the nucleus, supporting framework for neural tissues, and acts as a phagocytes**
7. Match the following parts of the neuron and their function:

<u> B </u> Dendrites	A- conductive region; generates an action potential
<u> C </u> Soma (cell body)	B- input area; receives signals from other neurons
<u> A </u> Axon	C- main nutritional and metabolic area
8. **Sensory** neurons carry information toward the CNS.
9. **Motor** neurons carry information away from the CNS.
10. **Interneurons** relay signals from one neuron to another.

31 Nervous System Answer Key

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The Enigmatic Realm of **31 Nervous System Answer Key**: Unleashing the Language is Inner Magic

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