

Chapter 11: Fundamentals of the Nervous System and Nervous Tissue

- 11.1 The nervous system receives, integrates, and responds to information
- 11.2 Neuroglia support and maintain neurons
- 11.3 Neurons are the structural units of the nervous system
- 11.4 The resting membrane potential depends on differences in ion concentration and permeability
- 11.5 Graded potentials are brief, short-distance signals within a neuron
- 11.6 Action potentials are brief, long-distance signals within a neuron
- 11.7 Synapses transmit signals between neurons
- 11.8 Postsynaptic potentials excite or inhibit the receiving neuron
- 11.9 The effect of a neurotransmitter depends on its receptor
- 11.10 Neurons act together, making complex behaviors possible

Chapter 11.1: The nervous system receives, integrates, and responds to information

LO 11.1a: List the basic functions of the nervous system.

1. List and briefly describe each of the three major functions of the nervous system. Refer to **Figure 11.1** for help.
-
2. Which of the following best represents the integration function of the nervous system? _____
 - (a) Seeing flashing lights in the rearview mirror
 - (b) Hearing the siren of an emergency vehicle
 - (c) Deciding to slow down and pull your car over
 - (d) Depressing the brake pedal to slow the car

LO 11.1b: Explain the structural and functional divisions of the nervous system.

3. What is the overall function of the central nervous system (CNS)?
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