

Study Guide

Answer Key

SECTION 1. HOW ORGAN SYSTEMS COMMUNICATE

1. Homeostasis is the maintenance of a stable internal environment.
2. Communication systems allow the body to detect and respond to stimuli.
Comic Strip: Students' drawings should show the body sensing a stimuli and producing a response. **Y diagram:** Nervous system—students' answers might include any of the following: quick rate of reaction, connected tissues, central nervous system, peripheral nervous system, brain, spinal cord, nerves, electrical signal; chemical signal. **Endocrine system**—students' answers might include any of the following: slow reaction rate, isolated organs, chemical signals, longer-term processes. **Both**—students' answers might include any of the following: communication system, stimulates other tissues, produces responses to stimuli.
3. stimulus
4. endocrine system
5. peripheral nervous system
6. nervous system

SECTION 2. NEURONS

1. motor neuron
2. sensory neuron
3. interneuron
4. produces responses
5. detects stimuli
6. passes signals between sensory and motor neurons
7. dendrite receives impulses; axon transmits impulses
8. It maintains Na^+ and K^+ concentration gradients.
9. Students' answers will vary.

10. An action potential is generated.
11. neurotransmitter
12. synapse
13. terminal
14. action potential

SECTION 3. THE SENSES

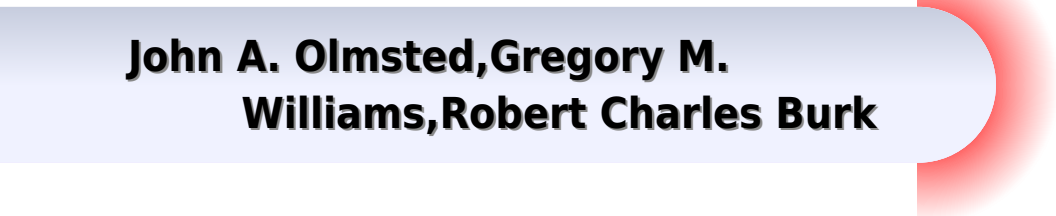
1. to gather information about the world around you
2. Students' answers will vary.
3. photoreceptors, light, answers will vary
4. mechanoreceptors, sound waves, answers will vary
5. chemoreceptors, airborne chemicals, answers will vary
6. chemoreceptors, chemicals dissolved in saliva, answers will vary
7. thermoreceptors and pain receptors, temperature (heat, cold) and pressure, answers will vary
8. the retina
9. The eardrum and the three bones in the ear amplify the sound waves. These amplified waves move fluid in the cochlea. When the fluid moves, the hair cells bend, generating impulses.
10. They must be dissolved in fluid.
11. pain receptors
12. *What Does It Do:* Detect light intensity, Detect color, Detect vibrations. *Where Is It Found:* Retina; Retina; Inner Ear

SECTION 4. CENTRAL AND PERIPHERAL NERVOUS SYSTEMS

1. brain and spinal cord
2. motor neurons and sensory neurons
Cause and Effect Diagram stimuli; the spinal cord, the spinal cord, brain; brain, produces a response
3. to process information relating to the senses
4. cerebrum, cerebellum, brain stem

Key Concept Study Guide Answer Section 19

**John A. Olmsted, Gregory M.
Williams, Robert Charles Burk**



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