Name _____ Date _____

NERVOUS REGULATION
14-1 The Regulatory Process

CHAPTER 14

Part I: Vocabulary Review

Match the terms listed in Column II with the proper definition listed in Column I. Place the answer in the space provided.

COLUMN I

_____ **1.** specialized structures that are sensitive to certain changes both inside and outside the organism

_____ **2.** short, highly branched nerve fibers that receive impulses

_____ **3.** place between the terminal branch of a neuron and the membrane of another cell

_____ **4.** nerve cells that carry impulses from receptors to the spinal cord and brain

_____ **5.** anything that causes a receptor to start impulses in a nerve pathway

_____ **6.** ability of a cell to respond to its environment

_____ **7.** long, thin nerve fiber that usually carries impulses away from the cell body

_____ **8.** specialized group of nerve cells that controls and coordinates the activities of the nervous system

_____ **9.** part of the nerve cell that contains the nucleus and the cell organelles

_____ **10.** structures that surround many vertebrate axons

_____ **11.** nerve cells that relay impulses from one neuron to another in the brain and spinal cord

_____ **12.** white, fatty substance produced by cells that surround vertebrate axons

_____ **13.** nerve cell

_____ **14.** specialized structure that responds to the commands of the nervous system

_____ **15.** electrochemical messages carried by nerve cells

_____ **16.** bundles of nerve fibers bound together by connective tissues

_____ **17.** nerve cells that carry impulses from the brain and spinal cord to effectors

COLUMN II

a. stimulus

b. Schwann cells

c. interneurons

d. effector

e. myelin

f. nerves

g. receptors

h. neuron

i. synapse

j. brain

k. axon

l. sensory neurons

m. cell body

n. motor neurons

o. irritability

p. dendrites

q. impulses

Part II: Content Review

Complete each of the following sentences.

18. In complex multicellular animals, the regulation and coordination of responses are controlled by _____

_____

_____