**Unit 2 Study Guide**

**Vocabulary**

1. A living thing; anything that can carry out life processes independently. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. A group of similar cells that perform a common function. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. A collection of tissues that carry out a specialized function of the body. \_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. A group of organs that work together to perform body functions. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. A plant organ that is the main site of photosynthesis and transpiration. \_\_\_\_\_\_\_\_\_\_\_\_\_
6. The mainly underground organ of vascular plants that holds plants in place and absorbs and stores water and minerals from the soil. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. A plant structure that provides support and transports nutrients. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. The organs that break down food so that it can be used by the body. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. The system that collects and excretes nitrogenous wastes and excess water from the body in the form of urine. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. A collection of organs whose promary function is to take in oxygen and expel carbon dioxide; the organs of this system include the lungs, the throat, and the passageways that lead to the lungs. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. The body system made up of the heart, the blood vessels, and the blood. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
12. The organ system whose primary function is movement and flexibility. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
13. The structures that control the actions and reactions of the body in response to stimuli from the environment; it is formed by billions of specialized nerve cells called neurons. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
14. The maintenance of a constant internal state in a changing environment. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
15. A specialized structure that contains the ends of sensory neurons and that responds to specific types of stimuli. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
16. An action that an individual carries out in response to a stimulus or to the environment. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
17. The ability to store and recall past experience. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Key Concepts**

1. What are the levels of organization in living things?
2. What is the function of tree leaves?
3. What are the three types of tissues found in vascular plant leaves?
4. What are the steps in the process of photosynthesis?
5. Know the different body systems and their functions.
6. Know the different types of tissues found in animals.
7. Know the structures of the plant and what they do.
8. What do living things need to survive? What do plants and animals need?
9. How do leaves and roots work together to provide a plant with what it needs?
10. Know the classification from cells to organ systems and how organ systems rely on each other.
11. Know what stimulus and response are.
12. Know what homeostasis is.
13. Know the different sensory receptors and what they do.
14. Know the difference between sensory and memory response.
15. Know what fight-or-flight is.