**1-3 Studying Life**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_ Per: \_\_\_\_\_

1. What does the word biology mean? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. List the 8 characteristics of living things:  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
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3. Circle the letter of each sentence that is TRUE about cells.  
a. A cell is the smallest unit of an organism that is considered alive.  
b. A multicellular organism may contain trillions of cells.  
c. A living thing that consists of a single cell is a multicellular organism.  
d. Organisms are made up of cells.

4. A type of asexual reproduction where a portion of the organism splits off to form a new organism is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

5. What is metabolism? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Plants, some bacteria, and most algae obtain their energy directly from \_\_\_\_\_\_\_\_\_\_\_.

7. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a signal to which an organism responds.

8. Give 2 examples of external stimuli: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

9. The process by which organisms maintain constant internal conditions if referred to as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is any change in a kind of organism over time.

(Some) BRANCHES OF BIOLOGY:

11. A biologist who studies animals is called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  
12. A plant biologist is referred to as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  
13. Someone who studies ancient life is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Levels of Organization: (see figure 1-21)

14. The smallest functional unit of life is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

15. Groups of cells working together form { molecules or tissues } circle one

16. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ community and its nonliving surroundings.

17. An \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an individual living thing.

18. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the part of Earth that contains all ecosystems.