

SECTION 1-1 REVIEW

THEMES OF BIOLOGY

VOCABULARY REVIEW Define the following terms.

1. DNA _____

2. sexual reproduction _____

3. autotroph _____

4. heterotroph _____

MULTIPLE CHOICE Write the correct letter in the blank.

- _____ 1. Biology is the study of
 - a. animals.
 - b. plants and animals.
 - c. all living things.
 - d. energy transfer.
- _____ 2. A short segment of DNA that contains instructions for the development of a single trait of an organism is known as a
 - a. DNA loop.
 - b. gene.
 - c. library.
 - d. membrane.
- _____ 3. As the cells in a multicellular organism multiply, they become different from each other in a process called
 - a. sexual reproduction.
 - b. descent with modification.
 - c. photosynthesis.
 - d. differentiation.
- _____ 4. Homeostasis refers to the
 - a. organization of cellular structures.
 - b. stable level of internal conditions in organisms.
 - c. organized structure of crystals.
 - d. destruction of tropical rain forests.
- _____ 5. The theory of evolution by natural selection states that
 - a. organisms with certain favorable traits are better able to reproduce.
 - b. all individuals are able to live and reproduce to the same degree.
 - c. individuals do not compete for resources such as food.
 - d. individuals evolve but populations of organisms remain the same.

SHORT ANSWER Answer the questions in the space provided.

1. Explain why the cell is called the basic unit of life. _____

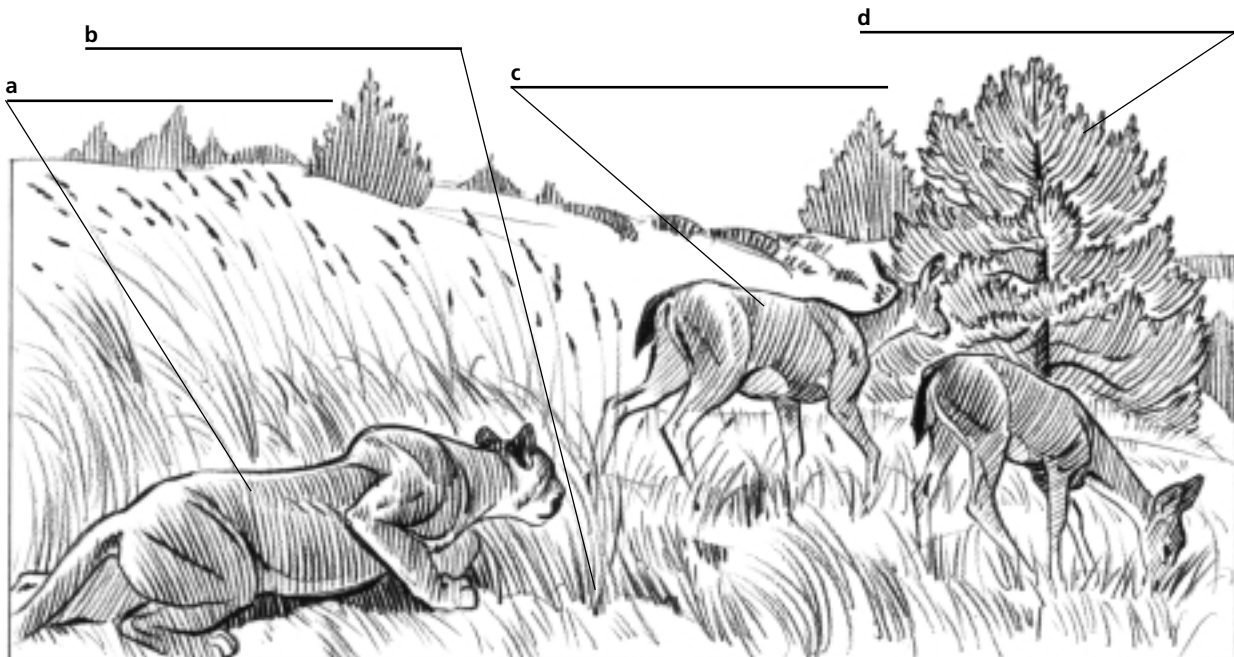
2. Give a specific example of homeostasis. _____

3. How can the cells in a multicellular organism differ from each other when they all have identical DNA? _____

4. Contrast the reproduction of bacteria with that of leopard frogs. _____

5. **Critical Thinking** The organization of salt crystals is much simpler than that of living things. By what other criteria can salt crystals be distinguished from living things? _____

STRUCTURES AND FUNCTIONS Write the correct term—*autotroph* or *heterotroph*—in the space referring to each of the organisms pictured below.



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