

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## Chapter 1 Concept Review

### B I O L O G Y

**Directions:** Answer the following questions using your notes and textbook (pages 96-125)

1. The \_\_\_\_\_ includes all living things and all the places they are found.
2. Biodiversity Generally \_\_\_\_\_ from the poles to the equator.
3. Members of a species can \_\_\_\_\_ and \_\_\_\_\_.
4. An \_\_\_\_\_ is any individual living thing.
  - a. All are made of one or more \_\_\_\_\_
  - b. All need \_\_\_\_\_ for metabolism
  - c. All \_\_\_\_\_ to their environment
  - d. All have \_\_\_\_\_ that they pass on to offspring.
5. An ecosystem includes \_\_\_\_\_ and \_\_\_\_\_ things that interact.
6. Organisms must maintain \_\_\_\_\_ to survive in diverse environments.
7. Homeostasis is the maintenance of \_\_\_\_\_ internal conditions.
8. \_\_\_\_\_ feedback systems return a condition to its normal (set) point.
9. Evolution can occur through \_\_\_\_\_ of adaptations.
10. Like all science, biology is a process of inquiry
  - a. Scientists make careful and systematic \_\_\_\_\_.
  - b. Scientists record observations as \_\_\_\_\_
  - c. Scientists form a \_\_\_\_\_ as a possible answer to a question
  - d. Scientists test their hypotheses and \_\_\_\_\_ their data.
11. \_\_\_\_\_ variables are manipulated.
12. \_\_\_\_\_ variables are observed and measured.
13. \_\_\_\_\_ are conditions that are kept the same.
14. A \_\_\_\_\_ is supported by a wide range of scientific evidence.

15. Computer \_\_\_\_\_ are used to study systems that cannot be studied directly.
16. Computer models are used when \_\_\_\_\_ are not safe, ethical, or practical.
17. A \_\_\_\_\_ is segment of DNA that stores \_\_\_\_\_ information.
18. Your health and the health of the environment depend on your knowledge of \_\_\_\_\_.
19. Knowledge of biology helps you understand your health
- a. Food \_\_\_\_\_
  - b. Potential effects of \_\_\_\_\_
  - c. \_\_\_\_\_
  - d. Effects of alcohol, tobacco, and other \_\_\_\_\_.
20. Knowledge of biology can help you understand environmental \_\_\_\_\_ issues.
- a. Interactions in \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
21. \_\_\_\_\_ offers great promise but also raises many issues.
22. Biotechnology is the \_\_\_\_\_ and \_\_\_\_\_ of living things and biological processes.
- a. \_\_\_\_\_ testing in medicine and forensics
  - b. \_\_\_\_\_ (genetically modified) crops
  - c. Transgenic \_\_\_\_\_
23. Questions are raised about the use of biotechnology
- a. \_\_\_\_\_ of genetically modified crops
  - b. Spread of undesirable \_\_\_\_\_
  - c. Decrease in \_\_\_\_\_
  - d. \_\_\_\_\_ considerations
24. Biology presents many unanswered \_\_\_\_\_.
25. Advances in \_\_\_\_\_ may help answer questions.