

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.