

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

## Evolution Test Review

**Directions:** Answer *the following questions using your notes and textbook for chapters 10-12.*

1. What is the term for a feature that allows an organism to survive better in its environment?
2. All the individuals of a species that live in a particular area are called a \_\_\_\_\_
3. The remnant of an organ that had a function in an early ancestor is known as a(n) \_\_\_\_\_ structure
4. What observations did Charles Darwin make about finches in the Galápagos Islands?
5. The hind leg bones shown in the whale in Figure 10.2 are examples of



6. What is the process in which humans breed organisms for certain traits?
7. Individuals that are well adapted to their environment will survive and produce \_\_\_\_\_ offspring
8. If two species have similar DNA sequences, it would indicate that they
9. The combined alleles of all the individuals in a population is called the \_\_\_\_\_
10. What are two main sources of genetic variation?
11. When a few individuals start a new colony it most likely results in
12. What type of isolation occurs when the timing of reproduction is different between two populations?
13. Coevolution is a process in which species
14. Two species that are closely related become increasingly different through

15. A river has cut a deep canyon that has separated a population of rodents into two groups. This separation is an example of what type of isolation?

16. Fossils that consist of minerals that have filled in an open mold of an organism are called

17. The bacterium shown in Figure 12.1 may have evolved into a mitochondrion after going through the process of

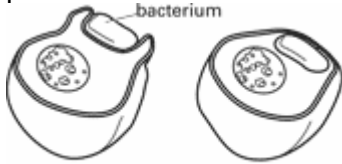


FIG. 12.1

18. What do scientists estimate as the age of Earth?

19. Scientists hypothesize that cyanobacteria changed the early Earth by producing \_\_\_\_\_

20. The evolution of sexual reproduction resulted in increased \_\_\_\_\_

21. The Age of Reptiles is a term often used to describe the \_\_\_\_\_ era

22. Which unit of geologic time followed the mass extinction of dinosaurs?

23. Fossil evidence suggests *Homo sapiens* first appeared \_\_\_\_\_ years ago

24. The first organisms on Earth were most like today's \_\_\_\_\_

25. In 1859, Charles Darwin published his revolutionary scientific ideas in a work titled

26. Charles Darwin called the ability of an organism to survive and reproduce in its environment

27. The combined genetic information of all members of a particular population is the population's

28. Natural selection acts directly on \_\_\_\_\_

29. The separation of populations by barriers such as rivers, mountains, or bodies of water is called

30. Most fossils form in \_\_\_\_\_ rock