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

![FIG. 10.2](leg_bones.png)

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

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