

Chapters 16-17: Darwin and Microevolution

1. Because of natural selection traits which confer a ___ advantage become ___ in a population.
 - a. Hunting... less common
 - b. Hunting ... more common
 - c. Reproductive... less common
 - d. Reproductive ... more common
 - e. Digestive ... more common
2. One word for common descent with modification is _____
3. True/False Charles Darwin was the first to take note descent with modification.
4. True/False Homologous structures have the same function.
5. True/False Experimental demonstrations of evolution have been carried out in the laboratory and in nature.
6. True/False The hypothesis that natural selection is the most important process underlying evolution was accepted at the same time that descent with modification was accepted.
7. True/False A population may have many alleles for any given gene.
8. Charles Darwin was the first to see that ___ is the primary process that drives evolution.
 - a. Mutation
 - b. genetic drift
 - c. natural selection
 - d. artificial selection
9. Matching:
 - a. Noted the extinction of species _____ Cuvier
 - b. "increase in population is limited by means of subsistence" _____ Wallace
 - c. First suggest descent with modification _____ Darwin
 - d. Person responsible for the theory of uniformity _____ Lamarck
 - e. Developed paleontology _____ Lyell
 - f. Co-discoverer of the theory of natural selection _____ Malthus
 - g. First to think of theory of natural selection
10. Why can bacteria evolve quickly?

11. Radiometric dating takes advantage what phenomenon to determine the age of a rock?

12. Uranium-238 is transformed into _____.
13. The time it takes for half the amount of an isotope to decay to a different substance is called its _____.
14. The 1-2-5 formula for limb bones in mammals refers to what structures?

15. Muscles that move the ear, the appendix and coccyx are all examples of _____ structures.
16. What was the Cambrian explosion? When did it take place (approximately)?

17. Why do we have few fossils predating the Cambrian explosion?

