

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?  
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