Biology Worksheet Unit 3   Student: _____

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   ____ Lamark
   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?
    _____