15-3 Darwin Presents his Case	
The birds Darwin found turned out to be all	
Why did Darwin not publish right away?	
3. Who gave Darwin an incentive to publish?	
	and the
4. What was the title of Darwin's book? how about	
5. Describe a variation found among cows: how about	plants?
6. What is artificial selection?	
7. What does the "struggle for existence" mean?	
8. What is an adaptation?	<del></del>
9. Adaptations can be or structural, or	r eve n behavioral.
10. What happens to individuals that are not well suited to their environmer	nt?
11. Over time, natural selection results in	in the inherited characteristics of a
population, which increase a species	
12. Darwin proposed that over long periods,	
produces organisms that have different, es	stablish different
, or occupy different habitats.	
13. If we look far enough back in history, we could find the common ancest	tor of all living things. This is known as
the principle of	
the principle of 14. Darwin argued that living things have been	on Earth for millions of years.
15. Evidence for this process could be found in the	record, the
distribution of living species, of living organisms, and similarities in ea	arly dayslanment or
or living organisms, and similarities in ea	arry development, or
·	
16. Darwin saw as a record of the his	story of life on Earth.
17. Researchers have discovered many hundreds of	that
document various intermediate stages in the evolution of modern species f	rom organisms that are now
18 structures are the one type of evidence for the evo	olution of things.
19. Structures that have different mature forms but develop from the same	embryonic tissue are called
20. Describe vestinial arrang	-
20. Describe vestigial organs	
21. Give an example of a vestigial organ:	
22. Embryos look similar showing that the embryonic cells develop in the si	ame and in
similar	<u></u> a
23. Summary of Darwin's Theory	
-Individual organisms differ, some of this	is heritable.
-Organisms produce more offspring than canBecause more organisms are produced than can survive, they	
-Because more organisms are produced than can survive, they	for limited
resources	iduals best suited for their environment
-Each unique organism has different advantages and disadvantages. Indivi	
survive and These	e organisms pass their hentable
to their offspringSpecies alive today are with m	nodification from ancestral species
with m	de la
24. Scientific advances in many fields of biology, along with geology and pl	hysics, have
and 25. Evolution is often called the grand	most of Darwin's hypothesis.
25. Evolution is often called the grand	theory of life sciences
Interpreting Data (see fig 15-14, p 383)	
26. Which animals has a larger range, the coypu or the muskrat?	
Which one is native to North America?	
Which animal would you find in the northern area of S. America?	
27. He (Darwin) realized that similar animals in different locations were the	product of different lines of
descent.	
Toeting Voursalf	

Name:

- 1. The ability of an organism to survive and reproduce in its natural environment is called:
- a. natural selection b. evolution c. homologous d. fitness
- 2. Which of the following Is an important concept in Darwin's theory of evolution by natural selection?

- a. Struggle for Existence
- b. Species change over time
- c. Descent with modification
- d. both a & b e. a, b, and c
- 3. Which of the following does NOT provide evidence that living things have been evolving for millions of years?
- a. fossil record
- b. natural variation within a species
- c. geographic distribution of species
- d. homologous structures of living organisms
- e. similarities of embryological development
- 4. A bird's wings are homologous to a(n):
- a. fish's tailfin b. alligator's claws c. dog's front legs d. mosquito's wing
- 5. Which would an animal breeder use to produce cows that give more milk?
- a. overproduction b. genetic isolation c. acquired characteristics d. artificial selection
- 6. Fitness is a result of:
- a. adaptations b. common descent c. homologies d. natural selection