A105/A303 Dr Bob Mucci SPRING 2006 Quiz # 5

3 points. Match one to one, every answer is used exactly once:

Charles Darwin Erasmus Darwin Thomas Malthus
Herbert Spencer Gregor Mendel Charles Lyell

_____ by controlled breeding, he discovered the principle of segregation.
_____ made the word "Evolution" popular, using it for geology, biology, and especially for society
_____ spent almost five years on a trip on the Beagle to South America
_____ was the grandfather of (and perhaps influenced) the man who wrote On the Origin of Species
_____ geologist friend of Charles Darwin, whose books demonstrated uniformitarianism
_____ populations would double every generation if not limited by the food supply

3 points. Match one to one, every answer is used exactly once:

Natural Selection Variation Descent from a Common Ancestor
Fitness Over-reproduction Transmutation

_____ is differential reproductive success
_____ physical differences among individuals of a species
_____ more are born than can survive and reproduce themselves
_____ the term Darwin used for change in a species over time, or evolution
_____ for example, originally there was only one kind of bear, but now there are many
_____ process by which nature chooses which characteristics of a species become more common over many generations (in a given environment)

7. Which is TRUE about Charles Darwin?
A. He wondered why there were so many kinds of finches in the Galapagos
B. He first published a book on what we call 'evolution' in 1859
C. He was a poor student and earned a degree in divinity, not in biology
D. As a boy he was an avid collector and naturalist
F. He did not believe that Evolution was directed toward a final end
E. All of these are true about Darwin

8. Which is TRUE about Gregor Mendel?
A. He wrote a book on geology that Darwin read on his voyage
B. He believed inheritance was not blending
C. He wrote "ON Population", a popular book about over-reproduction and a struggle for survival
D. He said "everything is evolution", thus popularizing that word.
E. All of these are true

2 point essay: explain the evolution of the long neck of the giraffe using Darwin's idea of Natural Selection.

LAST NAME _____ FIRST NAME _____

BONUS Q. Point out how Lamarck's explanation of the giraffe's neck was different from Darwin's