

STUDY GUIDE FOR MODULE #9

Assignment #1

Read pages 261 – 273.

1. Define the following terms:
 - a. Species (look it up)
 - b. Immutability of species
 - c. Microevolution
 - d. Macroevolution
 - e. Strata
 - f. Fossils
2. What was the main idea that Thomas Malthus's work gave to Darwin?
3. What was the main idea that Sir Charles Lyell's work gave to Darwin?
4. What age-old concept was Darwin able to dispel with his research?
5. Suppose a herd of horses were living in an area where food near the ground was scarce, but there was plenty of food in the trees. If, after several generations, the horses gave rise to giraffes that could easily reach the food in the trees, would this be an example of microevolution or macroevolution?
6. Consider a fish population that is trying to survive under conditions of extremely cold water. If, over several generations, the fish develop thicker fat layers under their skin for better insulation, is this an example of microevolution or macroevolution?
7. From a genetic point of view, what is the main difference between microevolution and macroevolution?
8. List the five areas that proponents of evolution use as supporting evidence for evolution.
9. List the following geologic eras in order from oldest to youngest: Mesozoic, Pre-Cambrian, Paleozoic, Cenozoic
10. What did the Miller-Urey experiment show?

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Assignment #2

Read the rest of Module 9.

11. Define the following terms:
 - a. Paleontology
 - b. Structural homology
 - c. Neo-Darwinism
 - d. Punctuated equilibrium
12. List five examples that supporters of intelligent design say provide evidence for intelligent design.
13. List two reasons the geologic column does not provide support for macroevolution.
14. If a bacterium has a mutation that makes it resistant to an antibiotic, does information get added to its genetic code?
15. What main problem with Darwin's hypothesis did neo-Darwinism hope to solve?
16. What problem with Darwin's hypothesis did punctuated equilibrium attempt to solve?
17. How would an adherent to punctuated equilibrium explain the lack of intermediate links in the fossil record?
18. What problems mentioned in this module still exist for those who believe in punctuated equilibrium?
19. According to an evolutionist, how was the world created?
20. Have evolutionists come up with a theory as to how living organisms arose from inorganic, non-living material?