

**NATURAL SELECTION
QUESTIONS FOR REVIEW AND DISCUSSION**

1. Natural selection involves the “survival of the fittest.” Biologically speaking, how is it determined who the “fittest” in any species is?
2. Did the moths near industrialized areas of England become lighter or darker? Why?
3. What were the “selective agents” in the moth’s environment that produced a population shift to another color?
4. If a moth needs or wishes to change color because the environment has changed, can it change? Why?
5. What caused the moths to change colors? Does one moth change or does a population change from one generation to the next?
6. What is meant by this statement? – Whether a mutation is beneficial or harmful is determined by the environment where the mutation occurs.
7. What is a clone? Is it produced sexually or asexually?
8. Do all members of a clone have the same or have different DNA instructions?
9. What is a hybrid? Is it produced sexually or asexually?
10. What is meant by “hybrid vigor?”
11. If mosquitoes eat a little DDT every day and build up an immunity to it, could this “acquired trait” be passed on to their offspring? Why?
12. Explain how a population of DDT-resistant mosquitoes was built up by using DDT as the selective agent.