

Patterns & Mechanisms of Evolution

Vocabulary Review: Define the following terms

1. stabilizing selection Extremes at both ends disappear and the population stays relatively stable
2. directional selection gets rid of one end of the scale, the average trait becomes greater than before
3. disruptive selection gets rid of the normal organisms, only extremes survive, often leads to two new species forming

Multiple Choice: Circle the correct answer for each of the questions below.

4. Starlings produce an average of five eggs in each clutch. If there are more than five, the parents cannot adequately feed the young. If there are fewer than five, predators may destroy the entire clutch. This is an example of
 - a. disruptive selection.
 - b. stabilizing selection.**
 - c. directional selection.
 - d. none of the above.
5. The occurrence of large or small beak sizes among seed crackers in the absence of medium sized beaks is an example of
 - a. directional selection.
 - b. stabilizing selection.
 - c. disruptive selection.**
 - d. none of the above.
6. A scientist measures the circumference of acorns in a population of oak trees and discovers that the most common circumference is 2 cm. What would you expect the most common circumference(s) to be after 10 generations of stabilizing selection?
 - a. 2 cm**
 - b. greater than 2 cm or less than 2 cm
 - c. greater than 2 cm and less than 2 cm
 - d. can't tell from the information given
7. Refer to question 6, but this time answer what you would expect after 10 generations of disruptive selection.
 - a. 2 cm
 - b. greater than 2 cm or less than 2 cm
 - c. greater than 2 cm and less than 2 cm**
 - d. can't tell from the information given

Answer Key To The Mechanisms Of Evolution

Guillaume Favre



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