

GRQs for How Populations Evolve II

(Reading Chapter 13)

Q1. When a population goes from large to small, genetic drift is more pronounced in the small population. What are two major reasons that populations go from large to small?

Two major reasons populations go from large to small are: the bottleneck and founder effect.

Q2. Describe gene flow and give at least one example of it that you understand.

Gene flow is the transfer of alleles from one population to another as a result of the movement of individuals or their gametes.

Example: humans moving from an old location to a new one and having children

Q3. Natural selection is the only mechanism that consistently leads to adaptive evolution. For each of the FIVE types of natural selection, a) define it, b) give at least one example of it that will help you understand and remember it c) draw a graph if appropriate

a. Directional selection – Natural selection in which individuals at one end of the phenotypic range survive and reproduce more successfully than do other individuals

Example: Cliff swallows who have larger bodies were able to survive an unusual period of cold weather



Common when a population's environment changes or when members of a population migrate to a different habitat

b. Stabilizing Selection – Natural selection that favours intermediate variants by acting against extreme phenotypes

Example: Babies who are born too small or too large have a smaller probability of survival



Reduces extreme phenotypes and increases the mean size for a particular character

c. Disruptive Selection – Natural selection in which individuals on both extremes of a phenotypic range are favored over intermediate phenotypes

Example: African black-bellied finches who have small beaks are able to feed on soft seeds and those with large beaks are able to feed on hard seeds; they are more likely to survive than those with medium-sized beaks

How Populations Evolve Chapter 1crossword

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