Study Guide

Biology 30 Unit D: Population and Community Dynamics

This is a set of some things you'll want to be able to do for the unit exam. This is not a complete set of everything that will be on the exam: if you can check off most of these boxes without looking at your notes, you have a good opportunity to do well on the exam.

Unit D: Propriation and Community Dynamics

Shudledts must be able to:

- © Recall all definitions, such ac system, equilibrium, population, Hardy-Wenberg principle, community, individual, gene pool, natural selection, symbiosis, succession, natality, morbitly, immigration, shressity, emigration, it resisched. K. selected.
- Define the Handy-Weinberg principle. Explain why it's significant in population gene-pool statisty and nonequilibrium values.
- Explain how-genetic drift, natural selection, gene flow; norwandom mating, bottleneck effects, founder effects, mination, and mutation all contribute to the genetic diversity of a gene pool.
- Use the Hardy-Meinberg principle to determine affele and periotype frequency in a set of data by using the equation tip + q = 1 and p' + 2pq + q' = 1
- Explain how mutations and natural selection are at the molecular level and how significant they are over time.
- Correctly apply significant digits when making paradations.
- Explain predatorsterry and consumersproducer resistancings.
- Define commensation, mutual on, and parastron
- Critismentiate between interspecific and intraspeptic competition.
- One eigen pies of detence mechanisms and how-they afted predation and competition.
- Explain how population midures may change over time or day as a dimax community.
- Deline remeasurant secondary surviversans.
- Analyze succession patterns over time.
- Calculate change in population size using the formula. All = [natality + iminigration] = [mortality + emigration].
- Use formulas to calculate: growth rate, per capita growth rate, and population density.
- Identify a growth pattern as either logistic (S-shaped) or exponential (J-shaped).
- Euplain the difference between open and closed populations.
- Identify a species as rior K selected based on phase teristics or reproductive strategies.
- Evaluate howervisions extal factors can affect population provide.
- Analyze graphical data on nonlik pelected species.

Population Dynamics Study Guide Biology

David Baud

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