

Study Guide

Biology 30 Unit D: Population and Community Dynamics

This is a list of some things you'll want to be able to do for the unit exam. This is not a complete list 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: Population and Community Dynamics

Students must be able to:

- ☐ Recall all definitions, such as: system, equilibrium, population, Hardy-Weinberg principle, community, individual, gene pool, natural selection, symbiosis, succession, natality, mortality, immigration, diversity, emigration, r-selected, K-selected
- ☐ Define the Hardy-Weinberg principle. Explain why it's significant in population gene-pool stability and nonequilibrium values
- ☐ Explain how genetic drift, natural selection, gene flow, nonrandom mating, bottleneck effects, founder effects, mutation, and migration all contribute to the genetic diversity of a gene pool
- ☐ Use the Hardy-Weinberg principle to determine allele and genotype frequency in a set of data by using the equations $p + q = 1$ and $p^2 + 2pq + q^2 = 1$
- ☐ Explain how mutations and natural selection are at the molecular level and how significant they are over time
- ☐ Correctly apply significant digits when making calculations
- ☐ Explain predator-prey and consumer-producer relationships
- ☐ Define commensalism, mutualism, and parasitism
- ☐ Differentiate between interspecific and intraspecific competition
- ☐ Give examples of defence mechanisms and how they affect predation and competition
- ☐ Explain how population structures may change over time or day as a climax community
- ☐ Define primary and secondary succession
- ☐ Analyse succession patterns over time
- ☐ Calculate change in population size using the formula: $\Delta N = [\text{natality} + \text{immigration}] - [\text{mortality} + \text{emigration}]$
- ☐ 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)
- ☐ Explain the difference between open and closed populations
- ☐ Identify a species as r or K selected based on characteristics or reproductive strategies
- ☐ Evaluate how environmental factors can affect population growth
- ☐ Analyse graphical data on r or K selected species

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Ying Liu



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Table of Contents Population Dynamics Study Guide Biology

1. Understanding the eBook Population Dynamics Study Guide Biology
 - The Rise of Digital Reading Population Dynamics Study Guide Biology
 - Advantages of eBooks Over Traditional Books
2. Identifying Population Dynamics Study Guide Biology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Population Dynamics Study Guide Biology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Population Dynamics Study Guide Biology

- Personalized Recommendations
- Population Dynamics Study Guide Biology User Reviews and Ratings
- Population Dynamics Study Guide Biology and Bestseller Lists
- 5. Accessing Population Dynamics Study Guide Biology Free and Paid eBooks
 - Population Dynamics Study Guide Biology Public Domain eBooks
 - Population Dynamics Study Guide Biology eBook Subscription Services
 - Population Dynamics Study Guide Biology Budget-Friendly Options
- 6. Navigating Population Dynamics Study Guide Biology eBook Formats
 - ePub, PDF, MOBI, and More
 - Population Dynamics Study Guide Biology Compatibility with Devices
 - Population Dynamics Study Guide Biology Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Population Dynamics Study Guide Biology
 - Highlighting and Note-Taking Population Dynamics Study Guide Biology
 - Interactive Elements Population Dynamics Study Guide Biology
- 8. Staying Engaged with Population Dynamics Study Guide Biology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Population Dynamics Study Guide Biology
- 9. Balancing eBooks and Physical Books Population Dynamics Study Guide Biology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Population Dynamics Study Guide Biology
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Population Dynamics Study Guide Biology
 - Setting Reading Goals Population Dynamics Study Guide Biology
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Population Dynamics Study Guide Biology

- Fact-Checking eBook Content of Population Dynamics Study Guide Biology
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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