

## Population Ecology Quiz PDF

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**What are common characteristics of r-strategists? (Select all that apply)**

- High reproductive rate
- Long lifespan
- Little parental care
- Adaptation to unstable environments

**Which growth model describes a population that increases rapidly under ideal conditions?**

- Logistics Growth
- Linear Growth
- Exponential Growth
- Stochastic Growth

**Which interactions are considered symbiotic relationships? (Select all that apply)**

- Mutualism
- Competition
- Commensalism
- Parasitism

**Which of the following are components of a life table? (Select all that apply)**

- Birth Rate
- Mortality Rate
- Age Structure
- Sex Ratio

**What is the term for the maximum population size that an environment can sustainably support?**

- Biotic Potential
- Carrying Capacity

- Population Density
- Ecological Footprint

**What is the term for the movement of individuals away from their origin or from high population density areas?**

- Migration
- Dispersal
- Emigration
- Immigration

**Which factors can influence the carrying capacity of an environment? (Select all that apply)**

- Resource Availability
- Climate Change
- Genetic Variation
- Habitat Space

**How do life history traits influence the reproductive strategies of organisms?**

**What role does migration play in the dynamics of metapopulations?**

**Explain how carrying capacity can change over time in a given environment.**

**Discuss the impact of human activities on population dynamics and provide examples.**

**Which of the following is a characteristic of K-strategists?**

- Rapid growth rate
- Short lifespan
- Few offspring
- High dispersal ability

**Explain the concept of ecological footprint and its significance in population ecology.**

**What factors can lead to a decrease in population size? (Select all that apply)**

- High birth rate
- Increased predation
- Emigration
- Disease outbreak

**Which of the following are density-dependent factors affecting population growth? (Select all that apply)**

- Competition
- Natural Disasters
- Predation
- Disease

**What is the main characteristic of r-strategists?**

- Long lifespan
- High parental care
- Many offspring
- Low reproductive rate

**Which factor is density-independent in affecting population growth?**

- Disease
- Food Availability
- Weather Conditions
- Predation

**In a population, what does a sex ratio of 1:1 indicate?**

- Equal number of males and females
- More males than females
- More females than males
- More juveniles than adults

**Describe the differences between exponential and logistic growth models in population ecology.**

**What is the primary focus of population ecology?**

- Individual behavior
- Ecosystem processes
- Species interactions
- Population dynamics