**Chapter 53 Reading Guide**

**-Population Ecology-**

***Section 1***

1. What is the difference between density and dispersion?

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1. Explain the difference between immigration and emigration. How does each affect population density?

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1. Name the three types of dispersion patterns.

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1. What is demography?

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1. What is a cohort? Give a real life example.

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1. What does a reproductive table show?

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***Section 2 and 3***

1. When does exponential growth occur?

Sketch a graph of this type of growth.

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1. When does logistic growth occur?

Sketch a graph of this type of growth.

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1. Define carrying capacity.

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1. What are some limiting resources that can influence carrying capacity?

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1. Compare the per capita birth and death rates if a population is demonstrating zero population growth?

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1. What are two examples of conditions that might lead to exponential population growth in natural populations?

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***Section 4 and 5***

1. What three variables form the life history of an organism?

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1. Explain the difference between semelparity and iteroparity.

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1. Define K-selection.

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1. Define R-selection.

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1. Explain the relationship between negative feedback and the regulation of populations.

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1. Explain the difference between density dependent and density independent population factors.

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1. Provide examples of both density dependent and density independent factors.

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***Section 6***

1. What is the demographic transition?

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1. In the demographic transition, which falls first, the birth rate or the death rate?

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1. What does an age structure diagram show?

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1. What are some factors that affect your ecological footprint?

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