

Name \_\_\_\_\_

## **Populations and Ecosystems Study Guide**

You are responsible for knowing and being able to apply the following terms and concepts on the exam. You should know the definition and how the key terms relate to one another for each section of Chapter 21. Please study – your grade depends on it!

### **Section 1: pages 704-9**

#### **Key terms**

Organism

Habitat

Biotic factor

Abiotic factor

Species

Community

Ecology

Population

Ecosystem

Photosynthesis

What is a habitat? What basic needs are provided by an organism's habitat?

Why do different organisms live in different habitats?

What might happen to an organism if its habitat could not meet one of its needs?

What are biotic factors?

What are abiotic factors?

Why are water and sunlight important to most organisms?

What are the levels of an ecosystem? Know what happens at each level.

What is an ecosystem?

Would all the different kinds of organisms in a forest be considered a population or community? Explain.

How might a change in one population affect other populations in a community?

### **Section 2: pages 711-18**

#### **Key terms**

Estimate

immigration

limiting factor

birth rate

emigration

carrying capacity

death rate

population density

What are the different methods ecologists use to determine population size? When would an ecologist use these methods?

How do populations change in size?

What happens when either the birth rate or death rate increases in a population?

What is the population statement and what does it mean?

What is immigration, and when does it occur?

What is emigration, and when does it occur?

Be able to read, understand and explain a graph showing changes in populations

What is population density and how is it calculated?

# Populations And Ecosystems Study Guide

**Richard P. Cincotta, Larry J. Gorenflo**



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**Human Population** Richard P. Cincotta, Larry J. Gorenflo, 2011-02-08 In this volume the dynamic patterns of human density and distribution are examined in relation to the viability of native species and the integrity of their habitats Social biological and earth scientists describe their models outline their conclusions from field studies and review the contributions of other scientists whose work is essential to this field The book starts with general theories and broad empirical relationships that help explain dramatic changes in the patterns of the occurrence of species changes that have developed in parallel with human population growth migration and settlement In the following chapters specific biomes and ecosystems are highlighted as the context for human interactions with other species A discussion of the key themes and findings covered rounds out the volume All in all the work presents our species *Homo sapiens* as what we truly have been and will likely remain an influential and often the most influential constituent in nearly every major ecosystem on Earth

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