Environment and Ecology Study Guide for Chapter 5

Study Tools:

- PowerPoint Notes
- Textbook
- Review Packet
- Vocab

M/C Topics:

- Understand the concept and significance of an organisms niche.
- Be capable of differentiating between a realized niche and a fundamental niche.
- Have a firm understanding of coevolution and convergent evolution. Be able to distinguish between the two and give an example of either.
- Understand what role limiting factors play on population growth.
- Recognize the distinction between density dependent limiting factors and density independent limiting factors. Be able to give examples. Also be able to associate the appropriate population growth curve to each.

Matching Terms:

niche convergent evolution density-dependent limiting factors competitive exclusion coevolution keystone predator exponential growth density-independent limiting factors evolution carrying capacity

Short Answer Topics:

• Scientific Method

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Name:	Class:	Date:
3. a. What prevents tob. What is the pheno4. Explain the differentiche.5. What is the role of	niche? to define a niche? Give exa two different species from s menon described in 3.a. ca	sharing the same niche? alled? 's fundamental niche and its realized niche diversity?
3. What is a generalized. Why are generalized environment?	zed species? Give one examinated species? The species considered more designated and species considered more designated and species considered more designated and species.	re adaptable to changes in the
 Define carrying ca What happens to a Describe a popula Identify six factor categories. Density-dependent b. c. 	pulations from continuously apacity. It population when it reache tion represented by an S-sh	es carrying capacity?

6. Give an example of a population that exhibits an S-shaped growth curve.

e. f.

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- 7. Give an example of a population that exhibits a boom-and-bust growth curve.
- **8.** Why is the human population growing exponentially?

Vocabulary Review

Match the correct vocabulary term to each of the numbered statements.