SECTION 16-3 REVIEW

FORMATION OF SPECIES

. mor	phology	
. geog	graphic isolation	
. pun	ctuated equilibrium	
ULTIF	PLE CHOICE Write the correct I	etter in the blank.
	1. One limitation of the morpholog	gical species concept is that
	a. morphological characteristicb. it cannot be applied to extinctc. members of different speciesd. there can be morphological	ct organisms.
	2. According to the biological spec	cies concept, a species is a population of organisms that
	b. have a similar structure and	n other organisms with a similar appearance.
	3. Fish populations that do not int into separate species due to	erbreed because they live in different ponds may evolve
	a. ecological isolation.b. geographic isolation.	c. prezygotic isolation.d. postzygotic isolation.
	4. Bird populations that do not interbreed because they cannot recognize each other's mating calls may evolve into separate species due to	
	a. ecological isolation.b. geographic isolation.	c. prezygotic isolation.d. postzygotic isolation.
	5. A pattern of rapid evolutionary changes followed by long periods of no change is described as	
	a. gradual evolution.	c. reproductive isolation.

b. punctuated equilibrium.

d. continuous speciation.

SHORT ANSWER Answer the questions in the space provided.

1. What are two limitations of the biological species concept? —

2. What is one advantage of prezygotic isolation over postzygotic isolation?

3. Describe two pieces of evidence indicating that speciation does not always occur at the same rate.

4. Critical Thinking Some scientists predict that if global warming continues over the next few centuries, melting of the polar ice caps will raise the level of the oceans, causing some peninsulas to become islands. How might this change eventually affect the species that live on these peninsulas?

STRUCTURES AND FUNCTIONS

1. The graph below shows the mating seasons of several species of frogs. On the basis of the information shown in the graph, do the peeper frog and the leopard frog likely have barriers to reproduction in addition to slightly different mating seasons? What other barriers might be in operation? Explain your answers.

