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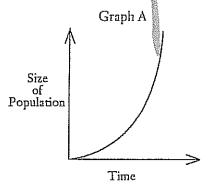
Population Biology

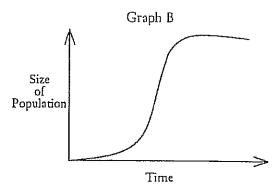
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Section 4.1 Population Dynamics

In your texthook, read about the principles of population growth.

Refer to Graphs A and B below. Answer the following questions.





1. What type of population growth is shown in Graph A? Explain this type of growth.

at an increasing rate

graving

- 2. Which graph shows the most likely growth of a squirrel population living in a forest?
- 3. Which graph shows a population's growth under ideal conditions?
- 4. Why don't populations of organisms grow indefinitely?

There is a limited in the environme

number of resources ent organisms ha

to compete for them

Use each of the terms below just once to complete the passage.

grows

carrying capacity

below

births

above

under

deaths

exceed

The number of organisms of one species that an environment can support is called its

- environment's carrying capacity, births (7) <u>lx(led</u> deaths and the population
- (8) <u>GYONS</u>. If the number of organisms rises (9) <u>above</u> the carrying capacity of the environment, (10) <u>deaths</u> will exceed (11) <u>births</u>. This pattern will continue until the population is once again at or (12) <u>under</u> the carrying capacity.



Cliairtel Population Biology, continued

Section 4.1 Population Dynamics, continued

	the letter of the choice that best completes the statement.
	he most important factor that determines population growth is the organism's
	. social pattern. b. carrying capacity. d. feeding pattern.
Υ.	rganisms that follow a rapid life-history pattern
	have short life spans. b. have small bodies.
	reproduce early. d.) all of the above
	Organisms that follow a slow life-history pattern
	have small bodies. b. mature rapidly. creproduce slowly. d. all of the above
	. limiting factor that has an increasing effect as population size increases is
	temperature. b. habitat disruption.
	d. drought.
7	and should be not show according interactions limit notulation vice
•	ur textbook, read about bow organism interactions limit population size.
	rer the following.
17. 🗓	The snowshoe hare is a primary source of food for the Canadian lynx. Explain how the lynx population size changes when the hare population increases.
-	As the predator, the typic population can grow when there are more haves (prey).
18. F	Explain how the change in the lynx population size affects the hare population.
	More lanxes will result in more have
-	More lynxes will result in more have denters which decretises the have population.
	What is the relationship between the lynx and the hare called?
	Predator-prey
	` 0
20.	When does competition decrease the size of a population?
	if where aven't enough resources (happens
	in logistic growth
21.	What can cause an organism to exhibit stress, and what symptoms of stress can lead to a decrease
į	in population size?
	an organism can be stressed by a lack or
	resources (including competition or natural disastor)
	or the presence of a predator