Quiz 10 - Population Size and Population Growth

DueApr 2 at 11:59pmPoints12Questions12Availableuntil Apr 3 at 10amTime Limit60 Minutes

Allowed Attempts 2

Instructions

This quiz asks about about estimating population size and population growth (logistic and exponential).

You have 2 attempts at this quiz. The highest mark counts.

Due date: Sunday, April 2nd @ 11:59 pm.

Attempt History

	Attempt	Time	Score	
KEPT	Attempt 2	3 minutes	12 out of 12	
LATEST	Attempt 2	3 minutes	12 out of 12	
	Attempt 1	20 minutes	11 out of 12	

① Correct answers will be available Apr 3 at 12pm - Apr 23 at 6pm.

Score for this attempt: 12 out of 12

Submitted Mar 29 at 9:41pm This attempt took 3 minutes.

Question 1	1 / 1 pts
What is a population?	
A collection on individuals living in the same habitat	
Members of the same species who live in the same area a time	at the same

A community of different species living in the same area at the same time.

Question 2	1 / 1 pts
Suppose that your trap 255 stickleback fish in a lab and in by clipping the first spine off their dorsal fins. One month return to the lake and capture a total of 162 stickleback fithese fish are marked. What is the estimated population stickleback fish in this lake?	later, you sh. 78 of
○ 50	
O 123	
530	
○ 4814	

Question 3	1 / 1 pts

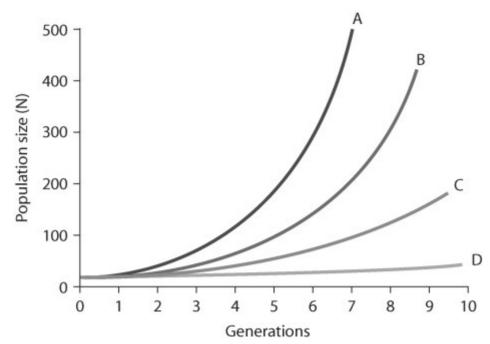
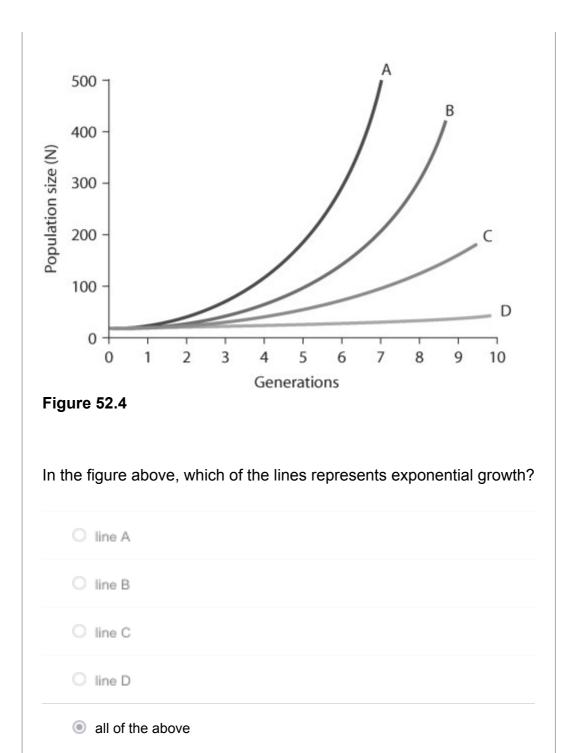


Figure 52.4

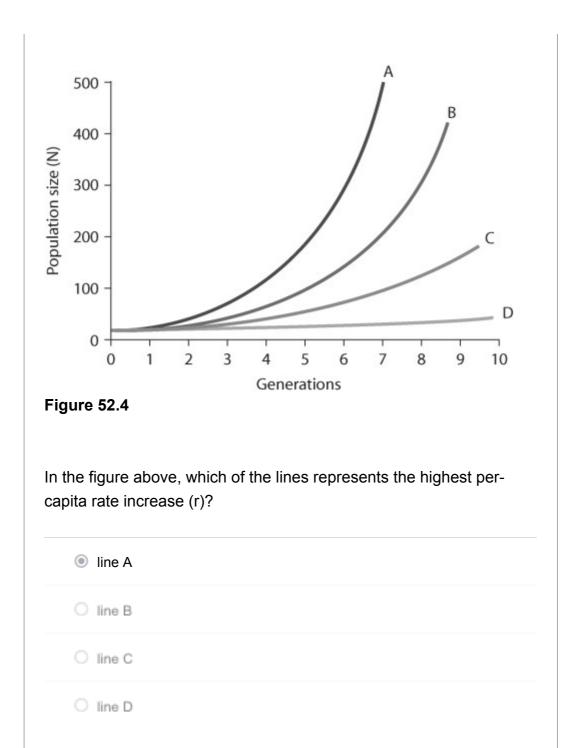
Assuming that these populations are density dependent, what is the likely outcome if the system depicted in the figure above were allowed to continue?

- O Population growth would continue to be discontinuous.
- Populations would go extinct.
- Individual growth would continue to be indeterminate.
- Population growth would likely decrease.

Question 4 1 / 1 pts

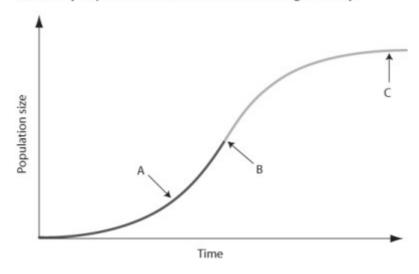


Question 5	1 / 1 pts



Question 6	1 / 1 pts

(a) Density dependence: Growth rate slows at high density.

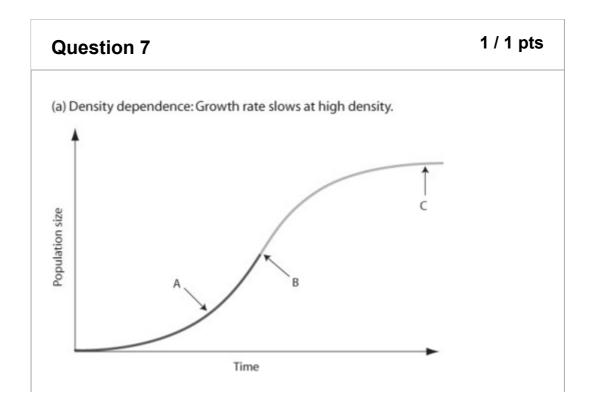


In the figure above, which of the arrows represents the carrying capacity?

arrow A

arrow B

arrow C



arrow A	
arrow B	
O arrow C	
Question 8	1 / 1 pts
Which statement about <i>K</i> is false?	
K varies among populations.	
K varies in space.	
K varies in time.	
K is specific for a given species.	
Question 9	1 / 1 pts

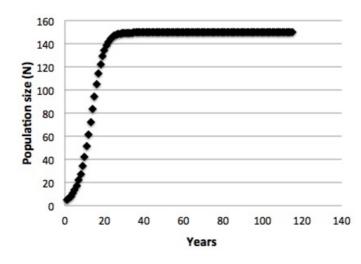
/

Organisms become stressed and more prone to disease from overcrowding
Large storms destroy a substantial amount of suitable habitat.
☐ Increased light becomes available for photosynthetic organisms
✓ Predators eat more prey as the prey numbers increase

Question 10	1 / 1 pts
Which of the following would you predict to have a large rate of increase)? Choose all that apply.	r (per capita
✓ Cyanobacteria (pond scum)	
Humans	
☐ Elephants	
Orcas	
Mosquitoes	
Dandelions	

Question 11 1 / 1 pts

The graph below shows change in the size of a population over 120 years.



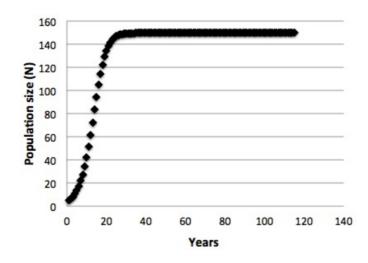
Based on the figure above, what is the carrying capacity of the habitat this population inhabits?

	-	
	7	٠
		~

/	150
----------	-----

Question 12 1 / 1 pts

Based on the figure below, what is the population's per capita rate of increase (*r*) between year 80 and year 100?



0		
O 1.0		
○ 0.5		
0.75		

Quiz Score: 12 out of 12